Yahoo Group Archive: hex-beam (2001 — 2006)

Yahoo Group summary: HEX-BEAM

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2017. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2001-11-29 through 2006-12-29, plus 1 message with implausible archived dates

Archived timestamps before 1997-01-01 or after 2020-12-16 are flagged as implausible and excluded from the date span; their original values remain in the message headers and manifests.

Source WARC: hex-beam.FT5peQU.warc.gz

Source item: https://archive.org/details/yahoo-groups-2017-03-31T10-46-05Z-99392f

Messages included in this PDF: 3551

Messages omitted as spam from this PDF: 1

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

1. HX-5B up and working great!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-11-29 18:47:59 UTC
From: w4wb@arrl.net
Topic: 1 Message: 1

Welcome to the HEX-BEAM Group. I will start it off my presenting a short note on the HX-5B we recently installed at W4RT.

After sitting in the box for 15 months, we finally got the HX-5B HEX-BEAM (S/N 81) assembled and up in the air at our company club station W4RT (Tornado Amateur Radio Club) in Huntsville, AL. This antenna replaced the old Hustler 4-BTV we had mounted on the office roof for several years. To my knowledge, this is the first permanent installation of a HEX-BEAM in the Tennessee Valley. Although our experience with this antenna is limited, the initial impression is very favorable.

If you would like to learn more, then please see the file "HX-5B at W4RT Club Station" in the Installations Folder in the Files Area.

This Folder is a good place to locate files about your installation. Photos not embedded in the text in the file should be place in the Photos Area.

73 de Barry - W4WB
Moderator

2. CQ Review of the Five-Band Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-11-30 01:25:46 UTC
From: w4wb@arrl.net
Topic: 2 Message: 2

A nice review article of the HX-5B appeared on pages 30-33 of the April 2000 issue of CQ. It was written by Lew McCoy, W1ICP (now sadly a SK).

In Lew's concluding remarks, he stated "I was very impressed by the HEX beam. If I had to rate beams on a 1 to 10 scale, I would give this antenna a solid 10."

For members that own a HEX-BEAM, what have your experiences with it been? Any observations of performance vs height?

73 de Barry - W4WB

p.s. I have no financial interest in Traffie Technology.

3. Supergain antennas

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-11-30 01:36:29 UTC
From: w4wb@arrl.net
Topic: 3 Message: 3

One of the references cited by Mike Traffie is the paper by R. P. Haviland - W4MB. This paper, entitled "SUPERGAIN ANTENNAS, Possibilities and problems," was published in Communications Quarterly, Summer 1992. This is not an easy reference to find, so I make a pdf file of it and place it in the Files Area, Publications.

Please note that the paper comprises 18 pages and formed a large file, 3.3 MB.

73 de Barry - W4WB

4. Hex Beam vs. MA5B CushCraft Mini Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-11-30 01:37:14 UTC
From: harry.edwards@sharkrack.com
Topic: 4 Message: 4

Well I believe that my land lord is going to allow me to put up a small beam at my office QTH! This is a dream come true as absolutely no beams are allowed in my snooty neighborhood.

I am trying to decide between the HEX-Beam and the CushCraft MA5B. Both get great reviews on e-Ham. I also e-mailed severl users of both and all are positive about their respective choices.

Thw CushCraft has a much lower price, and seems to have a better F/B ratio, while the HEX has specrtacular bandwidth with reasonable F/S ratios.

I am intrigued by the HEX and Mike T. has been very helpful with questions, etc.

ANY input on this would be help[ful. Since my company (I'm the CEO) is paying for this cost is not the object here.

Thanks in advance!

harry, W6DXO

5. K8AC's Installation of the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-11-30 02:51:42 UTC
From: w4wb@arrl.net
Topic: 5 Message: 5

We found the detailed installtion information provided by K8AC on

http://home.sprintmail.com/~sentek/hexpage1.htm

to be of value when we assembled the HX-5B. If you are going to be installing one, this is something to have printed out IMO.

73 de Barry - W4WB

6. Re: HX-5B up and working great!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-11-30 04:55:57 UTC
From: ab4wl@yahoo.com
Topic: 1 Message: 6

I have a first, too. I used my 6 meter Hex-Bex while mobile through EM63, EM73, EM 74, and EM 64 during the ARRL September VHF contest. My rig was a Yaesu FT-817. The Hex-Beam was mounted on my vehicle. I got lots of stares from passing motorists. One person on I-59 rolled down his window and stuck his head out of the window to get a better look! 73, Ken AB4WL

7. Comparative Testing

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-01 04:18:58 UTC
From: w4wb@arrl.net
Topic: 7 Message: 7

Anyone had the opportunity to do a side-by-side comparision of the HEX-BEAM and any other beam or antenna? If so, please share your experiences. Also, kindly explain your test in some detail if possible.

Tnx es 73 de Barry - W4WB

8. New Member

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-01 16:00:07 UTC
From: Steve Klenc
Topic: 8 Message: 8

I have been reading the Hex-Beam web site and considering purchasing the multi-band versions. This seems like a good place to read what other owners and experimenters have to say about the antenna.

73's
Steve
kc0acq

[Non-text portions of this message have been removed]

10. How high is your HEX-BEAM?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-01 21:30:52 UTC
From: w4wb@arrl.net
Topic: 10 Message: 10

The recommended height to mount the HX-5B is about 38-40 feet.

Anyone have experience using it at different heights, particularly higher (e.g., 50', 70', ...)? If so, please share it with everyone.

I have worked two HEX-BEAM owners on 20 m that had their beams lower on a temporary basis. One fellow in Canada had his on a 10-foot mast and was working Europe when I heard him receiving great reports. When I worked him, he turned the beam towards Alabama and his signal jumped up significantly. Even at this height, the F/B was over 2 S-units.

73 de Barry - W4WB

11. HexBeams - out of ham bands?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-02 01:02:51 UTC
From: scoggin@cis.udel.edu
Topic: 11 Message: 11

I am an Army MARS/SHARES operator and find the HexBeam's light weight and low signature very attractive. Unfortunately, the frequencies which I utilize are quite a bit outside the amateur bands and are not harmonically related, to say the least.

Does anyone have any feel for how well a 30M or 40M HexBeam would run if utilized with an SGC-235 tuner? Frequencies of interest range from around 6.8 to 25 MHz...

73, john
N3SKO
AAT3BF/AAM3O/AAA9AC

12. Re: HexBeams - out of ham bands?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-02 02:02:32 UTC
From: w4wb@arrl.net
Topic: 11 Message: 12

--- In hex-beam@y..., scoggin@c... wrote:
> I am an Army MARS/SHARES operator and find the HexBeam's light weight and low signature very attractive. Unfortunately, the frequencies which I utilize are quite a bit outside the amateur bands and are not harmonically related, to say the least.
>
> Does anyone have any feel for how well a 30M or 40M HexBeam would run if utilized with an SGC-235 tuner? Frequencies of interest range
> from around 6.8 to 25 MHz...
>
> 73, john
> N3SKO
> AAT3BF/AAM3O/AAA9AC

Hi John,

Interesting question. I just ran an EZNEC model of the 20-m Hex-Beam I have to see how it responded way out of band. Understand that this model is not proven, but does give a reasonable idea of what is going on. I appeared that the SWR > 10 once the frequency exceeded about 15 MHz with the antenna tuned for 14 MHz.

You might ask Mike Traffie directly too. Number is 888.599.BEAM.

73 de Barry - W4WB

14. Re: CQ Review of the Five-Band Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-02 03:58:57 UTC
From: wb6roh@arrl.net
Topic: 2 Message: 14

--- In hex-beam@y..., w4wb@a... wrote:
> A nice review article of the HX-5B appeared on pages 30-33 of the
> April 2000 issue of CQ. It was written by Lew McCoy, W1ICP (now
> sadly a SK).
>
> In Lew's concluding remarks, he stated "I was very impressed by the
> HEX beam. If I had to rate beams on a 1 to 10 scale, I would give
> this antenna a solid 10."
>
> For members that own a HEX-BEAM, what have your experiences with it
> been? Any observations of performance vs height?
>
> 73 de Barry - W4WB
>
> p.s. I have no financial interest in Traffie Technology.

My HX-5Bi is at approximately 30' and performs well. My reference antenna is a tuned-feeder fed "hortical" (60' doublet with 30' vertical and 30' horizontal). The minimum improvement with Hex on its 5 bands is 2 "S" units on the other end. Many stations are Q5 on the Hex and inaudible on the hortical.

73 Doug - WB6ROH

15. Easy installation of HX5-B on Aluma Tower

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-02 04:17:19 UTC
From: w2gff@earthlink.net
Topic: 15 Message: 15

I installed my HX5-B on a nested tower by myself, at night, and I'm 82 years old. It was really quite easy. Rope lines were run between two trees to suspend a pulley directly above the tower, which is attached to the house. A vertical line through the pulley was secured to the hub of the HX5-B, and the beam was then raised to the roof. Working on the roof alongside the nested tower, the beam was raised above the tower and the short mast in the hub was directed into the rotor. It took only about a half hour of work on the roof to put the HX5-B in place on the tower. The beam is so light and easy to handle it only required one hand to handle the support line while the other hand guided the mast into the rotor clamps. I will post some pictures of this installation.

Dick, W2GFF

16. My Hex Beam is not very high but it works very well

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-02 08:31:32 UTC
From: acbdzw@yahoo.com
Topic: 16 Message: 16

My call is K2ACB.In July of 2000 I purchased the HX5B Hex Beam.I had it installed professionally on my roof in September 2000.My Hex Beam is not very high.It is on a Glen Martin 4.5 foot roof tower.The antenna is on a 5 foot mast and I use a Yaesu G450-A rotator.

My antenna is only about 9 feet off the top of the roof of my 2 story house.It is about 36 feet from the ground to the antenna.I have an Icom 756 Pro transceiver and a Ten Tec Centurion amplifier. I usually operate barefoot or if I use my amplifier I do not run it more than 500 watts.Since the antenna is low and only about 30 feet through the roof from the second floor,if I run the amplifier to full power I overload the tv's ,telephones ,radios and speakers in the house.I do have them filtered but that doesn't help much when I run almost 1.5 kw. I do not have this problem of overload with my Gap Titan vertical which is about 60 feet from my house.

I consistently get about 2 to 4 S units better reports with the Hex Beam than I get with the vertical.I average about 12 db FB on the Hex Beam from reports I receive.My Hex Beam works out extremely well on the WARC bands and 10 meters and very good on 15 and 20 meters.

After speaking to Mike Traffie on the phone several times before and after I put up the antenna I finally had an opportunity to meet him personally at the Dayton Hamvention in May 2001.I must say that the support Mike gives to Hex Beam owners is excellent.

I could have put my Hex Beam up higher but I purposely put it on a low roof tower because I wanted the antenna to be as unobtrusive and with the lowest profile as possible.I work out fairly well with the antenna and have gotten some very good reports with it from all over the world.I have not made that many comparison tests with it.I did make some with friends who were running large tribanders such as a KLM KT34XA and 4 element monoband beams.One has to take into consideration a number of factors such as antenna height.location etc,etc when running comparison tests and my tests were not very scientific.My little Hex Beam could not compete with the large tribanders,quads or monobanders.Running the same power they averaged one to two S units better than my signal.I spoke to Mike Traffie about this and he attributed this to the height of my Hex Beam.He said that if it was higher and farther away from my roof I would work out better and be able to compete with the big arrays better.Perhaps he is right.But I am satisfied with my antenna the way it is now.

I have had from other qth's a Mosley Classic 33 beam which I had up for 12 years in midtown Manhattan in New York City.It was on the roof

of a 14 story apartment building.That was under my old call sign of WB2DZW and I also had a Cushcraft A3 beam which I had on top of a 4 story building in the West End of London England for 15 monthswhen I lived there.I would say that my Hex Beam is superior to those antennas and I also believe it is far superior to your average tribander.

What really sold me on the Hex Beam was the April 2000 article in CQ magazine on the antenna by the late Lew McCoy.It was one of the best reviews of any antenna I had ever read.I had met Lew McCoy at Dayton in previous years and I had a lot of respect for him as an antenna authority.

Prior to deciding about purchasing the Hex Beam I was contemplating purchasing the Force 12 C3 or C3SS antennas.I had heard people using them on the air and had heard only good things about them.At present I still have not made a comparable test comparing my Hex Beam to a C3 or C3SS antenna.However I wanted as low a profile antenna as I could find and the Hex Beam has more than met my expectations.

I know that there are some people out there who are skeptical about the antenna.One of them is L.B.Cebik,W4RNL who has modeled and written about antennas.I met him at the Dayton hamvention this year.He told me he felt the Hex beam was equivalent to a good 2 element beam but was not as good as the force 12 beam.However at that time he had not used or personally heard a Hex Beam though he had modeled the 5 bander.

I am far from an antenna expert.All I know is that as the saying goes the proof of the pudding is in its use.I have gotten very good reports with my Hex Beam.I have personally spoken thus far to five other hams in this country and abroad who have Hex Beams and all of them seem to be quite happy with their antennas.I have no interest in the company but I have recommended this antenna to a number of hams all over the world.I have also been the first contact with a Hex Beam for quite a few US and DX stations with the antenna.Some of them have never even heard of the antenna and I have directed them to the Traffie Technology web site or to the review of the antenna on eHam.net. Some stations I contacted I even sent copies of the construction manual so they could see how the antenna was put together. I wrote one of the first reviews of the antenna on eHam.net soon after my antenna was erected.I can be reached at K2ACB@...

if anyone has any further questions they would like me to answer on my Hex Beam.73-

Alan

17. I am new to this group

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-02 11:05:13 UTC
From: Makoto Tanaka
Topic: 17 Message: 17

Hello friends,

I am a new comer in this group. Since there is no one I ever know who is using Hexbeam, I wish to get as much info as possible from this group. Till now, I have never seen any negative comment on this antenna but need some more positive factors to make my decision.

I appreciate your input and look forward to work with you guys on the air with this beam some day.

73 de JR1NHD, Shin

[Non-text portions of this message have been removed]

18. de N9VV (lurking)

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-02 14:10:40 UTC
From: Kenneth C. Hopper
Topic: 18 Message: 18

Hi, I am just a "lurker" here because I can't afford a HexBeam :-) I have a Lightning Bolt Delta Loop up on a roof top tower and am dreaming about a HexBeam some day when I win the lottery (hihihi).

Pse visit http://www.n9vv.com/antennas.html for pix of my modest setup.

will be reading the mail,
dit dit
de ken n9vv
<n9vv@...>

19. Re: de N9VV (lurking)

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-02 14:26:02 UTC
From: w4wb@arrl.net
Topic: 18 Message: 19

--- In hex-beam@y..., "Kenneth C. Hopper" <khopper@u...> wrote:
> Hi, I am just a "lurker" here because I can't afford a HexBeam :-)
I have a Lightning Bolt Delta Loop up on a roof top tower and am
> dreaming about a HexBeam some day when I win the lottery (hihihi).
>
> Pse visit http://www.n9vv.com/antennas.html for pix of my modest
> setup.
>
> will be reading the mail,
> dit dit
> de ken n9vv
> <n9vv@a...>

Welcome to the group Ken. Nice slide show on getting the delta loop constructed and up on the roof. How well does it work?

You also have a not of good links on your site.

Hope you can win a lottery! hi hi

73 de Barry - W4WB

20. Re: I am new to this group

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-02 14:27:55 UTC
From: w4wb@arrl.net
Topic: 17 Message: 20

Hi Shin,

What "positive factors" are you looking for in your decision making process?

73 de Barry - W4WB

--- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
> Hello friends,
>
> I am a new comer in this group. Since there is no one I ever know who is
> using Hexbeam, I wish to get as much info as possible from this group.
> Till now, I have never seen any negative comment on this antenna but need
> some more positive factors to make my decision.
>
> I appreciate your input and look forward to work with you guys on the air
> with this beam some day.
>
> 73 de JR1NHD, Shin
>
>
> [Non-text portions of this message have been removed]

21. Re: [hex-beam] Re: I am new to this group

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-02 15:16:03 UTC
From: Makoto Tanaka
Topic: 17 Message: 21

Hi Barry,

Nice to have your response. What I wish to know is more field report from the current Hexbeam users in comparison with various beams. Further, any good reasons to pursuade my XYL?? hi hi.

I am currently considering to put HX-5Bi at the top of my roof tower on the top of my apartment building (30 meter high from the ground but only 3 meters from roof top). When I see the web from K8AC, it seems that I have to make through holes on my 50mm O.D. mast, which is unclear from his web as well as Hexbeam home page.

Anyway I look forward to any feedback in this group.

Thanks,
Shin, JR1NHD
----- Original Message -----
From: w4wb@...
To: hex-beam@yahoogroups.com
Sent: Sunday, December 02, 2001 11:27 PM
Subject: [hex-beam] Re: I am new to this group

Hi Shin,

What "positive factors" are you looking for in your decision making process?

73 de Barry - W4WB

--- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
> Hello friends,
>
> I am a new comer in this group. Since there is no one I ever know who is
> using Hexbeam, I wish to get as much info as possible from this group.
> Till now, I have never seen any negative comment on this antenna but need
> some more positive factors to make my decision.
>
> I appreciate your input and look forward to work with you guys on the air
> with this beam some day.
>
> 73 de JR1NHD, Shin
>
>

> [Non-text portions of this message have been removed]

To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

22. Comparing small beams, thinking of buying

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-02 14:54:07 UTC
From: chris_colliver@yahoo.com
Topic: 22 Message: 22

I have just joined the group. My call is wo8usa. I am considering the follwing for purhase:
--Hexbeam HX5B
--Cushcraft MA5B
--Butternut HF5B
--HyGain TH2MH3
--TGM MQ-2

As I get data together I will post it. I am especially interested in overall size (so as to reduce needed infraststructure such as rotor), bands, gain, etc. Other opinions about these antennas will be greatly appreciated--I will by one. Wintertime antenna dreams are great, kind of like getting ready for fishing season I guess.

Looks like a great group! Thanks for forming it,

Chris wo8usa Dayton Ohio

23. Re: I am new to this group

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-02 15:46:53 UTC
From: w4wb@arrl.net
Topic: 17 Message: 23

Hi Shin,

I also hope that we get more comparisons. Alan gave one in his recent post, i.e., HB vs. Titan vertical. I also have a Titan vertical, but it is at the house while the HB is at the office (about 10 minutes away). I have listened to the 247 DX Net on several occasions at home and then gone to the office and listened. The difference is dramatic. I should point out that I think the Titan is by far the best vertical I have ever had.

What is the material comprising your roof top? If it is metal, you should be good to go. The only issue I know of having the HB at 30 m is that additional elevation lobes can form. Being near the roof should mitigate that to some degree I should think. Traffie has one of his HB mounted at almost 30 m and it works fine, but differently than the at 12 m.

Advise about persuading XYLs is beyond my abilities. hi hi
Seriously, tell her that you will paint it flat black so that it will not be easily seen. You can tell friends that it the latest high-tech outdoor clothes line. If that fails, I always try a new piece of jewelry. :-)

Hope that helps a little Shin.

GL es 73 de Barry - W4WB

--- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
> Hi Barry,
>
> Nice to have your response. What I wish to know is more field report from the current Hexbeam users in comparison with various beams. Further, any good reasons to pursuade my XYL?? hi hi.
>
> I am currently considering to put HX-5Bi at the top of my roof tower
on the top of my apartment building (30 meter high from the ground but
only 3 meters from roof top). When I see the web from K8AC, it seems that I have to make through holes on my 50mm O.D. mast, which is unclear from his web as well as Hexbeam home page.
>
> Anyway I look forward to any feedback in this group.
>
> Thanks,
> Shin, JR1NHD

24. Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-02 19:16:50 UTC
From: wb6roh@arrl.net
Topic: 24 Message: 24

Anyone thinking about buying a Hex who has never worked one?
Commensurate with my other life, I will be glad to sked with you. I
running exclusively with a barefoot FT-1000MP, the Hex is at
approximately 30' AGL and my reference antenna is a half vertical /
half horizontal tuned-feeder fed doublet. I have worked about 3 other
Hexs and as others continue to say, I have no $$$$ link to Traffie.

73 - WB6ROH - Doug

25. Help!! I'm considering buying a Hexbeam or Force 12 C-3SS

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-03 01:55:34 UTC
From: tomac14@yahoo.com
Topic: 25 Message: 25

Hi:

I'm considering buying either a Hexbeam or a Force 12 C-3SS antenna. I've talked to several hams using the Hexbeam and they have had really strong signals and were extremely satisfied with their results. I've also talked to Mike Traffie who makes the Hexbeam.

Hexbeam seems to be the only antenna maker that talks about "RP" Reflected Performance and "SP" line of sight performance. Is this real or just a little marketing. I'd like some hard data about the Hexbeam forward gain.(Apparently f/b ratio is very good and is easier to measure than Fwd gain)

Has the antenna ever been tested on an antenna range or is most of the performance based on "testimonials?" The problem with testimonials is that the users really believe they are seeing an effect when,in fact, what they are seeing is the "placebo effect." If the antenna is as good as it is reported to be, then I would expect that the manufacturer would be anxious to back it up with hard numbers from a certified antenna range.

I'd like to hear from Hexbeam owners about why they chose the Hexbeam over other antennas (or from owners of competing antennas about why they didn't choose the Hexbeam.) I'd also like to hear about what tests, formal or informal, that Hexbeam owners have run on their hexbeam.

I'd like to make my decision before Dec 24, 2001 so Santa knows which one to pack in his sleigh.

I would really like to buy one, but I need more data on performance.

N0YD, Tom, "Doubting Thomas"

26. Re: I am new to this group

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-03 03:08:13 UTC
From: floydsense@yahoo.com
Topic: 17 Message: 26

Shin - the first two photos on my website show all there is to know about the mast mounting. There is ONE through bolt used for which you will have to drill a hole. Then there are four set screws to tighten down. That's all there is to it.
>
> I am currently considering to put HX-5Bi at the top of my roof tower on the
> top of my apartment building (30 meter high from the ground but only 3
> meters from roof top). When I see the web from K8AC, it seems that I have
> to make through holes on my 50mm O.D. mast, which is unclear from his web as
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> Anyway I look forward to any feedback in this group.
>
> Thanks,
> Shin, JR1NHD
> ----- Original Message -----
> From: w4wb@a...
> To: hex-beam@y...
> Sent: Sunday, December 02, 2001 11:27 PM
> Subject: [hex-beam] Re: I am new to this group
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> Hi Shin,
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> What "positive factors" are you looking for in your decision making
> process?
>
> 73 de Barry - W4WB
>
>
> --- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
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> > I appreciate your input and look forward to work with you guys on
> the air
> > with this beam some day.
> >
> > 73 de JR1NHD, Shin

> >

27. Hex-Beam: One Man's Bottom Line

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-03 04:13:24 UTC
From: rag@gng.co.uk
Topic: 27 Message: 27

I've owned my HX5-B since August. I only work 20-10 SSB, all 5 bands, primarily DX. My beam is mounted on my chimney with a Yaesu 450A rotor, the 20 mtr level is about 37 feet high and 7 feet above a slanting wood-shingled roof. There are rather full 60 foot high trees about 25 feet from the Beam, SW to NW. My QTH is on Long Island, NY, about 1/2 mile north of the Atlantic Ocean, 1 mile south of a large bay, elevation less than 10 feet above sea level. I run a Mark V and a Quadra amp at slightly above 1kw; a fabulous set-up which I love, but still 1/3 less power than the big boys.

I've never done any technical testing so this is "anecdotal", as they say. If I can hear the DX stronger than, say, S4, I work them within 3-5 minutes, usually first or second call, no matter how big the pile-up. Period. No exceptions. Honestly.

Indeed, when I first realized what was happening, I joked that the Hex-Beam has taken all the fun out of it. If I don't get someone after about two calls, I start checking my wires and gauges. I can't imagine using any other antenna, all I'd like to try is stacking the Hex-Beam.

I don't why we all feel obligated to say we don't have a financial interest in Traffie, but I don't either. But you couldn't ask for a more solicitous supplier or nicer guy than Mike.

As far as I'm concerned, there's no other antenna. I can't want to figure out how where to put a 40 meter one and get on that band as well.

If I sound infatuated, it's because I am.

Bob, K2SGO

28. Re: [hex-beam] Help!! I'm considering buying a Hexbeam or Force 12 C-3SS

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-03 04:25:39 UTC
From: Wb6roh@aol.com
Topic: 25 Message: 28

Tom N0YD,

The problem with a range is that it will validate SP but not RP, to use the references you gave. I usually have one or more of my friends running the same power with various "other" antennas join in the same QSOs that I am in such as we did with N6RV today. I don't know how else you can validate actual long haul results.

73

Doug - WB6ROH

[Non-text portions of this message have been removed]

29. Pointing Indicator

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-03 05:31:11 UTC
From: w4wb@arrl.net
Topic: 29 Message: 29

Dick, W2GFF in Fairhope, AL, came up with a good idea. If you look at the photo of his tower and antenna (see Photos area), you will see a bright-yellow plastic arrow he made to help figure out which way the beam is pointing. This is particularly helpful under low-light conditions. If you are interested, I'm sure Dick will provide more details.

73 de Barry - W4WB

30. New Guy

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-05 04:57:34 UTC
From: Gordon
Topic: 30 Message: 30

Hi Barry
I finally figured this YAHOO Out!
Thanks again for answering my e-mail As I said I am looking forward to getting my 5bi up and running.
72/3 Gordon va7xg@...

[Non-text portions of this message have been removed]

31. HX-5B SWR Plots

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-05 05:34:26 UTC
From: w4wb
Topic: 31 Message: 31

Please see the folder entitled "SWR Plots" in the Photos area. Double click and the image will be enlarged. These SWR plots are for the HX-5B antennas at WB6ROH and W4RT. A lot of similarity can be seen between them, but there are some interesting difference.

73 de Barry - W4WB

32. Re: [hex-beam] HX-5B SWR Plots

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-05 14:14:59 UTC
From: Makoto Tanaka
Topic: 31 Message: 32

Hi Barry,

Where is such folder? I cannot find it.

Regarding the mast mount method, Mike Traffie was more than kind enough to offer me the hub undrilled so that I do not need to make a thru hole because mu antenna mast is very sold, not tubular type. Oh, I do not have any reason not to purchase Hexbeam expect the last but highest wall in front of me, it is my wife. hi

Regards,
****
Makoto Tanaka "Shin"
JR1NHD
ex. 9V1ZW, AA2DI
<jr1nhd@...>
<jr1nhd@...>
****

[Non-text portions of this message have been removed]

33. Re: HX-5B SWR Plots

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-05 14:34:23 UTC
From: jr1nhd_shin
Topic: 31 Message: 33

Sorry I can reach the folder with Internet Exploer while I could not
access it with Netscape. I do not know why.

Regards,
Shin JR1NHD

--- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
> Hi Barry,
>
> Where is such folder? I cannot find it.
>
> Regarding the mast mount method, Mike Traffie was more than kind
enough to
> offer me the hub undrilled so that I do not need to make a thru
hole because
> mu antenna mast is very sold, not tubular type. Oh, I do not have
> any reason not to purchase Hexbeam expect the last but highest wall
in front
> of me, it is my wife. hi
>
> Regards,
> **********
> Makoto Tanaka "Shin"
> JR1NHD
> ex. 9V1ZW, AA2DI
> <jr1nhd@m...>
> <jr1nhd@j...>
> **********
>
>
> [Non-text portions of this message have been removed]

34. Re: HX-5B SWR Plots

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-05 16:27:20 UTC
From: w4wb
Topic: 31 Message: 34

Hi Shin,

You have to "Sign In" on the web site of the group
http://groups.yahoo.com/group/hex-beam
and then click on Photos in the left panel on your screen. Then
double-click the folder SWR Plots. The click on images to enlarge.

FB on the mast. Seems the XYLs are the same the world over Shin! hi
hi GL

73 de Barry - W4WB

--- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
> Hi Barry,
>
> Where is such folder? I cannot find it.
>
> Regarding the mast mount method, Mike Traffie was more than kind
enough to
> offer me the hub undrilled so that I do not need to make a thru
hole because
> mu antenna mast is very sold, not tubular type. Oh, I do not have
> any reason not to purchase Hexbeam expect the last but highest wall
in front
> of me, it is my wife. hi
>
> Regards,
> **********
> Makoto Tanaka "Shin"
> JR1NHD
> ex. 9V1ZW, AA2DI
> <jr1nhd@m...>
> <jr1nhd@j...>
> **********

35. Re: HX-5B SWR Plots

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-05 16:29:21 UTC
From: w4wb
Topic: 31 Message: 35

--- In hex-beam@y..., "jr1nhd_shin" <jr1nhd@m...> wrote:
> Sorry I can reach the folder with Internet Exploer while I could not
> access it with Netscape. I do not know why.
>
> Regards,
> Shin JR1NHD

OK Shin. I just tried Netscape also. For some reason, it will not allow me to log in on http://groups.yahoo.com/group/hex-beam. This is most strange. IE works fine.

73 de Barry - W4WB

36. Re: [hex-beam] Re: HX-5B SWR Plots

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-05 18:26:58 UTC
From: C.M. Christensen
Topic: 31 Message: 36

Hmmmm -- works fine on Netscape here.
--
73, Chris AC?M

w4wb wrote:
>
> --- In hex-beam@y..., "jr1nhd_shin" <jr1nhd@m...> wrote:
> > Sorry I can reach the folder with Internet Exploer while I could not
> > access it with Netscape. I do not know why.
> >
> > Regards,
> > Shin JR1NHD
>
> OK Shin. I just tried Netscape also. For some reason, it will not
> allow me to log in on http://groups.yahoo.com/group/hex-beam. This
> is most strange. IE works fine.
>
> 73 de Barry - W4WB
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

37. Baluns and HEX Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-05 20:10:41 UTC
From: blkwynd2000
Topic: 37 Message: 37

Hi Guys..

Have any of you added any sort of balun to your HEX Beam?

Thanks in advance for any thoughts!

harry, W6DXO

38. Re: [hex-beam] Baluns and HEX Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-05 20:15:26 UTC
From: Wb6roh@aol.com
Topic: 37 Message: 38

I use 6 turns of RG-213 wound on a 4 3/8" PVC form (see K1TTT's balun technotes @ www.k1ttt.net). The choke balun rests on top of the spreader plate with the CPVC pipe through it.

73 - Doug - WB6ROH

[Non-text portions of this message have been removed]

39. Homebrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-05 20:40:39 UTC
From: David Douglass
Topic: 39 Message: 39

For those interested in a much (much) cheaper alternative to the "off the shelf version", have a look at....

http://www.iol.ie/~bravo/ahexbeam.htm

I'd be interested to hear from anyone who have tried to make one of these, or who is planning to do so.

My thoughts are that the hex-beam is a home-brewers dream!!

Regards to all

David, VK2DPD
vk2dpd@...
vk2dpd@...

40. Re: [hex-beam] Baluns and HEX Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-05 22:54:37 UTC
From: Floyd Sense
Topic: 37 Message: 40

I have a dozen clamp-on ferrite cores on the feedline just below the rotor. A few turns of coax on a PVC pipe form would have been better, but didn't think about it when I put the beam in the air.

K8AC
Floyd Sense - Angier, NC
----- Original Message -----
From: blkwynd2000
To: hex-beam@yahoogroups.com
Sent: Wednesday, December 05, 2001 15:10 PM
Subject: [hex-beam] Baluns and HEX Beams

Hi Guys..

Have any of you added any sort of balun to your HEX Beam?

Thanks in advance for any thoughts!

harry, W6DXO

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hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

41. Re: [hex-beam] Homebrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-05 23:06:09 UTC
From: Floyd Sense
Topic: 39 Message: 41

I agree with your comment about it being a good home-brew candidate. However, the two or three home-brew attempts I'm aware of have been either one or two banders. Anyone contemplating a five band model using a single feedline should have lots of time to experiment, and a tilt-over or telescoping tower. I understand from talking to Mike Traffie that considerable experimentation went into the five band model. For example, the 20 meter elements are not resonant where one would think they would be, and they are different from the elements used on the 20 meter monobander.

If I had another tower and no neighborhood restrictions, I'd certainly have a home-brew 40 meter model in the air! I wonder if anyone has tried a home-brew 5 bander with separate feedlines. I'd guess you'd have to switch both sides of the coax feedline with relays to minimize interactions, and maybe that wouldn't be sufficient?

K8AC
Floyd Sense - Angier, NC
----- Original Message -----
From: "David Douglass" <vk2dpd@...>
To: "HEX-BEAM" <hex-beam@yahoogroups.com>
Sent: Wednesday, December 05, 2001 15:40 PM
Subject: [hex-beam] Homebrew Hex Beam

> For those interested in a much (much) cheaper alternative to the "off the
> shelf version", have a look at....
>
> http://www.iol.ie/~bravo/ahexbeam.htm
>
> I'd be interested to hear from anyone who have tried to make one of these,
> or who is planning to do so.
>
> My thoughts are that the hex-beam is a home-brewers dream!!
>
> Regards to all
>
> David, VK2DPD
> vk2dpd@...
> vk2dpd@...
>
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>
>

42. Re: Baluns and HEX Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-06 01:47:30 UTC
From: w4wb
Topic: 37 Message: 42

--- In hex-beam@y..., "blkwynd2000" <blkwynd2000@y...> wrote:
> Hi Guys..
>
> Have any of you added any sort of balun to your HEX Beam?
>
> Thanks in advance for any thoughts!
>
> harry, W6DXO

Hi Harry,

We used about 8 turns, 8" diameter as a choke. One was placed just below the rotor and a second one just as it goes through the wall panel to the shack. We don't seem to have interference with the alarm system or telephone system. Traffie advises that ferrite beads have been found to decrease performance. How much, I don't recall him saying.

73 de Barry - W4WB

43. Re: Homebrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-06 01:51:04 UTC
From: w4wb
Topic: 39 Message: 43

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> For those interested in a much (much) cheaper alternative to the
"off the shelf version", have a look at....
>
> http://www.iol.ie/~bravo/ahexbeam.htm
>
> I'd be interested to hear from anyone who have tried to make one of
these, or who is planning to do so.
>
> My thoughts are that the hex-beam is a home-brewers dream!!
>
> Regards to all
>
> David, VK2DPD
> vk2dpd@q...
> vk2dpd@b...

Hi David,

Good show! Nice web site showing the development. Only other person
I know that has done a homebrew is Rick - K1BQT and his was for 10 m.

What sort of bandwitdth and SWR did you achieve?

73 de Barry - W4WB

44. Re: [hex-beam] Homebrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-06 11:34:23 UTC
From: David Douglass
Topic: 39 Message: 44

Thanks for the replies regarding homebrewing hex-beams!!

I agree that making a 5 bander would be a time consuming process, and a bit tricky to get resonance on all bands. I tend to think that the mechanics of being able to easily prune and adjust the wire elements is the main hurdle to overcome!!

Anyway, I have 2 weeks holiday coming up, I've assembled most of the parts, and I have a fairly big incentive (an approximate $600US saving on the pre-made version).

I plan to take photos, and compile all the construction data once complete, so I'll post the info to anyone interested.

Regards all

David, VK2DPD
----- Original Message -----
From: "Floyd Sense" <k8ac@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, December 05, 2001 11:06 PM
Subject: Re: [hex-beam] Homebrew Hex Beam

> I agree with your comment about it being a good home-brew candidate.
> However, the two or three home-brew attempts I'm aware of have been either
> one or two banders. Anyone contemplating a five band model using a single
> feedline should have lots of time to experiment, and a tilt-over or
> telescoping tower. I understand from talking to Mike Traffie that
> considerable experimentation went into the five band model. For example,
> the 20 meter elements are not resonant where one would think they would
be,
> and they are different from the elements used on the 20 meter monobander.
>
> If I had another tower and no neighborhood restrictions, I'd certainly
have
> a home-brew 40 meter model in the air! I wonder if anyone has tried a
> home-brew 5 bander with separate feedlines. I'd guess you'd have to
switch
> both sides of the coax feedline with relays to minimize interactions, and
> maybe that wouldn't be sufficient?
>
> K8AC
> Floyd Sense - Angier, NC
> ----- Original Message -----
> From: "David Douglass" <vk2dpd@...>
> To: "HEX-BEAM" <hex-beam@yahoogroups.com>

> Sent: Wednesday, December 05, 2001 15:40 PM
> Subject: [hex-beam] Homebrew Hex Beam
>
>
> > For those interested in a much (much) cheaper alternative to the "off
the
> > shelf version", have a look at....
> >
> > http://www.iol.ie/~bravo/ahexbeam.htm
> >
> > I'd be interested to hear from anyone who have tried to make one of
these,
> > or who is planning to do so.
> >
> > My thoughts are that the hex-beam is a home-brewers dream!!
> >
> > Regards to all
> >
> > David, VK2DPD
> > vk2dpd@...
> > vk2dpd@...
> >
> >
> >
> >
> > Your use of Yahoo! Groups is subject to
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> >
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> >
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

47. Ad in the Messages

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-07 12:22:04 UTC
From: w4wb
Topic: 47 Message: 47

Folks,
I will attempt to contact Yahoo. It seems that only some Groups have been attacked by this "ad". Please bear with us while we get it sorted out.
Tnx,
Barry - W4WB
Moderator

50. In-text ad on Web version is Gone

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-07 21:35:41 UTC
From: w4wb
Topic: 50 Message: 50

The in-text ad on Web version is gone. Why? Who knows. Maybe our complaints worked.

Barry - W4WB

51. Re: [hex-beam] How High is HEX-BEAM?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-08 13:00:57 UTC
From: pmsteider
Topic: 51 Message: 51

Hello all,this is Paul,W0NMB and a very happy & satisfied owner of the two band HXL 1510 Hex beam. It's been up 18 months at only 26 feet and has been through 2 severe ice storms with no problems.

I've made no tests and all my comments just subjective but after 53 years I've been through my share of yagi's & quads.Believe me this antenna works wonders on long haul DX.I've logged hundreds of DX stations with my K2 at 5--10 watts and rarely is my report less than S7.Using my TS 850 seems almost overkill.This is mostly CW.

Anyway,26 feet works great for me on these bands
73.Paul

52. Re: How High is HEX-BEAM?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-08 14:47:57 UTC
From: w4wb
Topic: 51 Message: 52

--- In hex-beam@y..., "pmsteider" <pmsteider@c...> wrote:
<snip>
>
> Anyway,26 feet works great for me on these bands
> 73.Paul

Hi Paul,

I thought it might me interesting to run a Hex-Beam model I have (generally ok, but still the fidelity needs to be improved) at the more typical 35'to 38' heights and compare with yout 26' height.

What I see is about what one should expect. At these lower heights, there is a single forward beam (true for yagis as well).

At 26', the -6 dB beamwidth in elevation is about 60 degs (15 to 75 degs) with the prime TOA at 34 degs.

At 35', the -6 dB beamwidth in elevation is about 44 degs (9 to 53 degs) with the prime TOA at 27 degs.

At 38', the -6 dB beamwidth in elevation is about 38 degs (8 to 46 degs) with the prime TOA at 25 degs.

Whether or not the values are exact is not the important point, it is the general trend that is my message.

What we can see is that the elevation beamwidth is a rather strong function of the antenna height --- changing the height by 11' changes the elevation beamwidth by from 60 to 38 degrees. In general, the very high elevation angles are not desired and waste energy. For some applications, this is just what you want however.

Also, the TOA decreases significantly --- 34 to 25 degrees.

Perhaps what is even more interesting is that the -6 dB TOA drops also a factor of two in this height change. Notice that the 3' change from 35' to 38' made little difference.

This is just FWIW. The antenna is a fine performer in any case and outstanding I think for a compact beam.

73 de Barry - W4WB

53. Re: Help!! I'm considering buying a Hexbeam or Force 12 C-3SS

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-08 15:07:43 UTC
From: k4mg
Topic: 25 Message: 53

I had your same problem. My analysis is that the hex-beam is better. However, due to the ~+$300 price difference between the hex-beam and the C3SS, I bought the C3SS. Of course, I don't have them both to compare, but in truth, I could not be happier with my C3SS.

See my web page, http://www.qsl.net/k4mg/ for pictures of the C3SS, and of my June and especially July log using the C3SS.

--- In hex-beam@y..., tomac14@y... wrote:
> Hi:
>
> I'm considering buying either a Hexbeam or a Force 12 C-3SS antenna.
> I've talked to several hams using the Hexbeam and they have had really
> strong signals and were extremely satisfied with their results. I've
> also talked to Mike Traffie who makes the Hexbeam.
>
> Hexbeam seems to be the only antenna maker that talks about "RP"
> Reflected Performance and "SP" line of sight performance. Is this real
> or just a little marketing. I'd like some hard data about the Hexbeam
> forward gain.(Apparently f/b ratio is very good and is easier to
> measure than Fwd gain)
>
> Has the antenna ever been tested on an antenna range or is most of the
> performance based on "testimonials?" The problem with testimonials is
> that the users really believe they are seeing an effect when,in fact,
> what they are seeing is the "placebo effect." If the antenna is as
> good as it is reported to be, then I would expect that the
> manufacturer would be anxious to back it up with hard numbers from a
> certified antenna range.
>
> I'd like to hear from Hexbeam owners about why they chose the Hexbeam
> over other antennas (or from owners of competing antennas about why
> they didn't choose the Hexbeam.) I'd also like to hear about what
> tests, formal or informal, that Hexbeam owners have run on their

> hexbeam.
>
> I'd like to make my decision before Dec 24, 2001 so Santa knows
which
> one to pack in his sleigh.
>
> I would really like to buy one, but I need more data on performance.
>
> N0YD, Tom, "Doubting Thomas"

54. Re: [hex-beam] Re: How High is HEX-BEAM?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-08 15:50:28 UTC
From: pmsteider
Topic: 51 Message: 54

Barry,very interesting model numbers and would agree they reflect the trend I'd expect.Question: would your numbers be the same regardless of frequency,i e would 20 meters and 10 meters come out the same ?

73.Paul.W0NMB

55. Re: How High is HEX-BEAM?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-08 16:33:20 UTC
From: w4wb
Topic: 51 Message: 55

--- In hex-beam@y..., "pmsteider" <pmsteider@c...> wrote:
> Barry,very interesting model numbers and would agree they reflect
the trend I'd expect.Question: would your numbers be the same
regardless of frequency,i e would 20 meters and 10 meters come out
the same ?
>
> 73.Paul.W0NMB

Hi Paul,

Well, shame on me. The numbers in the prior post were for 20 m since I think in terms of my 5-band antenna. I well know you have the 10 & 15 m version and you wrote it again. OK, I just ran it for 15 m (can do 10 m later if interested) and the results were interesting. The behavior is, of course, a function of frequency and height. So here are the 15 m results FWIW.

At 26', the -6 dB elevation beamwidth is 38 degs (8 to 46 degs) with a TOA of 24 degs.

At 35', the -6 dB elevation beamwidth is 27 degs (6 to 33 degs) with a TOA of 18 degs. At this point, a second beam is formed with its TOA at 66 degs and 4 dB down from the other beam. Its -6 dB (relative to its own peak) elevation beamwidth is 57 degs (47 to 102 degs, yep, going in the rearward direction).

I would guess that the 10 m beam at 26' will look at lot like the 15 m beam at 26' since the height and frequency ratios are almost the same.

73 de Barry - W4WB

56. Re: Help!! I'm considering buying a Hexbeam or Force 12 C-3SS

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-08 16:51:29 UTC
From: w4wb
Topic: 25 Message: 56

--- In hex-beam@y..., "k4mg" <k4mg@a...> wrote:
> I had your same problem. My analysis is that the hex-beam is
> better. However, due to the ~+$300 price difference between the
hex-> beam and the C3SS, I bought the C3SS. Of course, I don't have
them both to compare, but in truth, I could not be happier with my
C3SS. See my web page, http://www.qsl.net/k4mg/ for pictures of the
C3SS, and of my June and especially July log using the C3SS.

Hi Barry,

Looks like you have been busy on PSK31. Since I have never used
the C3SS, I have three questions I would appreciate you answering.
First, how long did it take you to assemble the C3SS? Did you have to
spend any additional effort in tuning it (such as taking it down and
putting it back up)? Second, how does it work on 12 m and 17 m? I
understand that it requires a tuner, but have no idea how much
matching is required. Third, what rotor are you using? I should
expect that you must have something heavier than the $100 Channel
Master I used. Oh yes, isn't the price difference about $200 rather
than $300? I am using the price given by Texas Towers. You might
know a better source.

Tnx es 73 de Barry - W4WB

57. Re: [hex-beam] Re: How High is HEX-BEAM?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-08 17:11:00 UTC
From: pmsteider
Topic: 51 Message: 57

Barry------thanks for the new numbers,they make me happier,hi If I go for the 30 meter Hex next year I'll for sure go with more height than what I'm using now----Best of Season Greetings,Paul,W0NMB

58. Baluns

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-08 18:27:48 UTC
From: w4wb
Topic: 58 Message: 58

This is an intresting chapter from "Reflections II" by Walter Maxwell, W2DU, entitled "Some Aspects of the Balun Problem." The url for this chapter is

http://home.iag.net/~w2du/Reflections2Chapter21SomeAspectsoftheBalunProblem.pdf

and is provided by W2DU at no charge. Look at Section 2.6 in particular.

If you really want a good paper that explains baluns, this is a nice one. I am alos placing it in the Bookmarks section.

73 de Barry - W4WB

59. Re: Help!! I'm considering buying a Hexbeam or Force 12 C-3SS

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-09 09:24:57 UTC
From: k4mg
Topic: 25 Message: 59

Hi Barry,
I put it together taking my time in one afternoon, using the middle position on all elements, and per my swr bridge it looked OK while down (hanging 7 feet in the air, off my tilt over tower. Worked with good swr across the bands. My ICOM 746 internal tuner will tune it on 12 and 17, also about 2.5 to 1 on 6 (I still don't believe this one). I got it before the last force12 price rise, so actually was comparing my old price with the current hexbeam price, so you are probably right about the $200 price difference. I have a Yaesu G-800dxa rotator. I still think the hexbeam has better specs, but as I said, I am satisfied. 73, Barry K4MG

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@y..., "k4mg" <k4mg@a...> wrote:
> > I had your same problem. My analysis is that the hex-beam is
> > better. However, due to the ~+$300 price difference between the
> hex-> beam and the C3SS, I bought the C3SS. Of course, I don't
have
> them both to compare, but in truth, I could not be happier with my
> C3SS. See my web page, http://www.qsl.net/k4mg/ for pictures of the
> C3SS, and of my June and especially July log using the C3SS.
>
>
>
> Hi Barry,
>
> Looks like you have been busy on PSK31. Since I have never used
> the C3SS, I have three questions I would appreciate you answering.
> First, how long did it take you to assemble the C3SS? Did you have
to
> spend any additional effort in tuning it (such as taking it down
and
> putting it back up)? Second, how does it work on 12 m and 17 m? I
> understand that it requires a tuner, but have no idea how much
> matching is required. Third, what rotor are you using? I should
> expect that you must have something heavier than the $100 Channel
> Master I used. Oh yes, isn't the price difference about $200
rather
> than $300? I am using the price given by Texas Towers. You might
> know a better source.
>
> Tnx es 73 de Barry - W4WB

60. Re: How High is HEX-BEAM?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-09 12:47:07 UTC
From: chris_colliver
Topic: 51 Message: 60

Barry (W4WB),

Do you have the files necessary for modeling the HExbeam? I have
EZNEC 3 and would be interested in getting them.

Chris wo8usa@...

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@y..., "pmsteider" <pmsteider@c...> wrote:
> <snip>
> >
> > Anyway,26 feet works great for me on these bands
> > 73.Paul
>
>
> Hi Paul,
>
> I thought it might me interesting to run a Hex-Beam model I have
> (generally ok, but still the fidelity needs to be improved) at the
> more typical 35'to 38' heights and compare with yout 26' height.
>
> What I see is about what one should expect. At these lower
heights,
> there is a single forward beam (true for yagis as well).
>
> At 26', the -6 dB beamwidth in elevation is about 60 degs (15 to 75
> degs) with the prime TOA at 34 degs.
>
> At 35', the -6 dB beamwidth in elevation is about 44 degs (9 to 53
> degs) with the prime TOA at 27 degs.
>
> At 38', the -6 dB beamwidth in elevation is about 38 degs (8 to 46
> degs) with the prime TOA at 25 degs.
>
> Whether or not the values are exact is not the important point, it
is
> the general trend that is my message.
>
> What we can see is that the elevation beamwidth is a rather strong
> function of the antenna height --- changing the height by 11'
changes
> the elevation beamwidth by from 60 to 38 degrees. In general, the
> very high elevation angles are not desired and waste energy. For
some
> applications, this is just what you want however.
>

> Also, the TOA decreases significantly --- 34 to 25 degrees.
>
> Perhaps what is even more interesting is that the -6 dB TOA drops
> also a factor of two in this height change. Notice that the 3'
> change from 35' to 38' made little difference.
>
> This is just FWIW. The antenna is a fine performer in any case and
> outstanding I think for a compact beam.
>
> 73 de Barry - W4WB

61. Re: How High is HEX-BEAM?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-09 15:03:58 UTC
From: w4wb
Topic: 51 Message: 61

--- In hex-beam@y..., "chris_colliver" <chris_colliver@y...> wrote:
> Barry (W4WB),
>
> Do you have the files necessary for modeling the HExbeam? I have
> EZNEC 3 and would be interested in getting them.
>
> Chris wo8usa@a...
>

Hi Chris,

I have a file for a 20-m Hex-Beam that (I believe) Roy - W7EL sent me last year. As I have mentioned before, it gives generally ok results but the fidelity of the model to the actual dimensions of the antenna is not so good. For example, the driven element and reflector are way too far apart. He has to use a matching circuit to get the proper impedance (too low without it) while the actual antenna achieves 50 ohm impedance without any matching network. As you bring the two element closer together, the impedance rises. In an actual Hex-Beam, the center parts of the elements are less than an inch apart.

I have attempted to model the 20-m beam myself using actual dimensions, but the results have been less than I desired due to limitations of NEC-2 (EZNEC 3.0 or Win-NEC) I have been told.

Beware the results from the model. I suggest they should be used for looking for general trends, not highly specific parameters such as gain or F/B.

73 de Barry - W4WB

62. FAX Number Changed for Traffie Technology

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-09 18:00:30 UTC
From: w4wb
Topic: 62 Message: 62

After wasting a call, I discovered that Traffie Technology has just changed their FAX number to 978.386.7905. It has been changed on the web site too.

73 de Barry - W4WB

64. Ferrites for Baluns

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-09 20:18:55 UTC
From: w4wb
Topic: 64 Message: 64

Several folks have asked for source information about where ferrites can be obtained for RFI control and making the W2DU-type balun.

I have created a folder under Bookmarks entitled Baluns. The URLs for representative sources are listed there along with the chapter from W2DU's book Reflections II.

Typical materials are Type 43, 64, 73, 77, F, and J. Each material performs best as a RF attenuator over different portions of the spectrum. For typical HF work (80-6 m), Type 77 and Type F are preferred. For RG-213, Amidon makes a toroid FB-77-1024 that fits fine. You need at least 5 of them.

Palomar Engineers offers a balun kit Model BA-8 for $15 + $6 S/H. Antennex also sales the BA-8 for the same price.

73 de Barry - W4WB

65. Re: Baluns

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-10 02:29:13 UTC
From: tomac14
Topic: 58 Message: 65

Hi barry:

Your URL for the article was split into two lines (by the limited line length in the Yahoo Post message). Hence clicking on the URL will not work. After you click on the URL and get an error message, just add the following to the line in the URL window: oblem.pdf and then hit ENTER, and you get the excellent article in pdf format.

Thanks,

Tom, N0YD

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
>
> This is an intresting chapter from "Reflections II" by Walter Maxwell,
> W2DU, entitled "Some Aspects of the Balun Problem." The url for this
> chapter is
>
> http://home.iag.net/~w2du/Reflections2Chapter21SomeAspectsoftheBalunPr
> oblem.pdf
>
> and is provided by W2DU at no charge. Look at Section 2.6 in
> particular.
>
> If you really want a good paper that explains baluns, this is a nice
> one. I am alos placing it in the Bookmarks section.
>
> 73 de Barry - W4WB

66. Re: Ferrites for Baluns

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-10 02:32:38 UTC
From: tomac14
Topic: 64 Message: 66

Hi Barry:

Are baluns required or recommended (by Mike Traffie) for the hexbeam
HB5i ???

How many hexbeam owners use them and how many don't/

Thanks,

Tom, N0YD

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Several folks have asked for source information about where ferrites
> can be obtained for RFI control and making the W2DU-type balun.
>
> I have created a folder under Bookmarks entitled Baluns. The URLs
for
> representative sources are listed there along with the chapter from
> W2DU's book Reflections II.
>
> Typical materials are Type 43, 64, 73, 77, F, and J. Each material
> performs best as a RF attenuator over different portions of the
> spectrum. For typical HF work (80-6 m), Type 77 and Type F are
> preferred. For RG-213, Amidon makes a toroid FB-77-1024 that fits
> fine. You need at least 5 of them.
>
> Palomar Engineers offers a balun kit Model BA-8 for $15 + $6 S/H.
> Antennex also sales the BA-8 for the same price.
>
> 73 de Barry - W4WB

67. Re: Ferrites for Baluns

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-10 03:50:24 UTC
From: w4wb
Topic: 64 Message: 67

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> Hi Barry:
>
> Are baluns required or recommended (by Mike Traffie) for the
hexbeam HB5i ???
>
> How many hexbeam owners use them and how many don't/
>
> Thanks,
>
> Tom, N0YD
>

Hi Tom,

Well there are baluns and baluns. Mike doesn't recommend the impedance matching balun; however, what we really are talking about is a RF choke to kill any RF that might be present on the exterior of the shield. It is my understanding from Mike that he does concur that the RF is a good idea. As mentioned in a prior post, the old 6-8 turns with 6-8" diameter near the antenna works reasonably well. WA6ROH gave us the url for the data developed by K1TTT for the air balun, which helps optimizes the coax coil dimensions. Mike has told me that one (or more) person tried ferrite beads and had problems. I have no idea how it was implemented. It is my intention, the next time I have the antenna down, to place the W2DU type balun (Type 77 ferrite sleeves) right below the antenna base. This appears to me to be an improvement over the K1TTT balun which is an improvement over the "old" coax coil RF choke.

As for how many use some form of RF choke (balun), I don't know. I do know some that do use one however (including me).

73 de Barry - W4WB

68. homebrew

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-10 12:25:28 UTC
From: tomasz_axe
Topic: 68 Message: 68

Hello,

I'm new to this group. I want to make hexbeam but cannot find exact dimensions. Can anybody send me that info?
BTW how precise will I have to keep to hex shape and what can be the effect of little asymetry?

Thomas

69. Re: Ferrites for Baluns

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-10 14:55:44 UTC
From: joe_katz
Topic: 64 Message: 69

This may help too:
I've had some monster ground loop problems, in no small part caused
by RF creeping back up the shield, and have had good results using
line isolators from RadioWorks:
http://www.radioworks.com/clitop.html

Question:
I have vertical antennas now; I had thought they are more prone to
this problem than horizontal types. Not having experience with beams
or quads, as I consider purchasing a Hex-Beam I am concerned that
this seems to be such a big problem with this beam. Does anyone feel
the Hex-Beam experiences unusually bad problems with "RF creep"?

'3s,
Joe, K6ATZ

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> > Hi Barry:
> >
> > Are baluns required or recommended (by Mike Traffie) for the
> hexbeam HB5i ???
> >
> > How many hexbeam owners use them and how many don't/
> >
> > Thanks,
> >
> > Tom, N0YD
> >
>
> Hi Tom,
>
> Well there are baluns and baluns. Mike doesn't recommend the
> impedance matching balun; however, what we really are talking about
> is a RF choke to kill any RF that might be present on the exterior
of
> the shield. It is my understanding from Mike that he does concur
> that the RF is a good idea. As mentioned in a prior post, the old
6-
> 8 turns with 6-8" diameter near the antenna works reasonably well.
> WA6ROH gave us the url for the data developed by K1TTT for the air
> balun, which helps optimizes the coax coil dimensions. Mike has
told
> me that one (or more) person tried ferrite beads and had problems.
I
> have no idea how it was implemented. It is my intention, the next

> time I have the antenna down, to place the W2DU type balun (Type 77
> ferrite sleeves) right below the antenna base. This appears to me
to
> be an improvement over the K1TTT balun which is an improvement over
> the "old" coax coil RF choke.
>
> As for how many use some form of RF choke (balun), I don't know. I
> do know some that do use one however (including me).
>
> 73 de Barry - W4WB

70. Re: Ferrites for Baluns

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-10 15:38:14 UTC
From: w4wb
Topic: 64 Message: 70

--- In hex-beam@y..., "joe_katz" <k6atz@a...> wrote:
> This may help too:
> I've had some monster ground loop problems, in no small part caused
> by RF creeping back up the shield, and have had good results using
> line isolators from RadioWorks:
> http://www.radioworks.com/clitop.html
>
> Question:
> I have vertical antennas now; I had thought they are more prone to
> this problem than horizontal types. Not having experience with
beams or quads, as I consider purchasing a Hex-Beam I am concerned
that this seems to be such a big problem with this beam. Does anyone
feel the Hex-Beam experiences unusually bad problems with "RF creep"?
>
> '3s,
> Joe, K6ATZ
>

Hi Joe,

Thanks for the reference to RadioWorks. I have added it to the
Bookmarks for this site in a folder named RFI.

My experience has been that my verticals have always been more of a
RFI problem than my beams or dipoles. I run 1 KW within 15-20' of
our main telephone switching box in the office. No problems yet.
When we used the vertical, the linear could not be used without
knocking out the phones and the security system.

73 de Barry - W4WB

71. Re: [hex-beam] Re: Ferrites for Baluns

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-10 15:44:02 UTC
From: Floyd Sense
Topic: 64 Message: 71

Well Joe, "RF creep" is certainly a new one on me! I'd advise all to stick with known physical and electrical phenomena - life is simpler that way. Feedline radiation is NOT a "big problem" with this beam. Many of the hexbeam installations I'm aware of are not unlike my own - the beam is mounted rather low to the ground and rather close to, or on top of, the house. With this type of installation, ANY radiation from the feedline can be a problem due to proximity to other electronic devices and wiring in the home. Likewise, direct radiation from the antenna can be a problem because of the proximity to home. I had my rotor cable, hexbeam coax, 2 meter beam coax all taped together and running down the tower. That resulted in a few problems, with interferance to electronic clocks, garage door openers, etc. In my case, simply routing the hexbeam coax down another tower leg and installing a dozen clip-on 1" long split ferrite cores around the feedline below the rotor reduced the problems considerably. I'd have wound the coax feedline into a choke at the same point if I had planned ahead and allowed enough extra coax.

If my hexbeam were mounted 50 feet from the house on a 70 foot tower as my tribander at the old QTH had been, there would be no such problems at all. Also, I've had no problems at all when running only 150 watts to the hexbeam - only at the 800 watt power level did problems appear.

K8AC
Floyd Sense - Angier, NC
----- Original Message -----
From: joe_katz
To: hex-beam@yahoogroups.com
Sent: Monday, December 10, 2001 9:55 AM
Subject: [hex-beam] Re: Ferrites for Baluns

This may help too:
I've had some monster ground loop problems, in no small part caused by RF creeping back up the shield, and have had good results using line isolators from RadioWorks:
http://www.radioworks.com/clitop.html

Question:
I have vertical antennas now; I had thought they are more prone to this problem than horizontal types. Not having experience with beams or quads, as I consider purchasing a Hex-Beam I am concerned that this seems to be such a big problem with this beam. Does anyone feel the Hex-Beam experiences unusually bad problems with "RF creep"?

'3s,
Joe, K6ATZ

[Non-text portions of this message have been removed]

72. a portable 2m hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-11 12:58:35 UTC
From: tomasz_axe
Topic: 72 Message: 72

I have made a portable hexbeam for 2m band. It's for fun but it works!
Take a look at my page:

http://www.axeprim.poznan.pl/sp3fhi/hex2me.html

Thomas, SP3FHI

73. my homebrew 6m hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-13 08:31:47 UTC
From: tomasz_axe
Topic: 73 Message: 73

Take a look at my new construction - 6m hexbeam.

http://www.axeprim.poznan.pl/sp3fhi/hex6me.html

73! de SP3FHI

74. Re: my homebrew 6m hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-13 13:41:37 UTC
From: w4wb
Topic: 73 Message: 74

Hi Thomas,

Great photos and description of your effort. Did you measure F/B yet
or gain?

73 de Barry - W4WB

--- In hex-beam@y..., "tomasz_axe" <sp3fhi@a...> wrote:
> Take a look at my new construction - 6m hexbeam.
>
> http://www.axeprim.poznan.pl/sp3fhi/hex6me.html
>
>
> 73! de SP3FHI

75. Hello to all!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-13 22:36:18 UTC
From: k6hjm
Topic: 75 Message: 75

Just ordered my Hex-Beam five band version about 2 weeks ago. Seems they are having problems with delivery of the fiberglass spreader rods, so a delay in sending it to me. Anyone out there from Southern California who has (and loves?) this antenna?
73,
Herb

76. Re: Hello to all!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-14 04:36:46 UTC
From: ku7q
Topic: 75 Message: 76

--- In hex-beam@y..., "k6hjm" <meiselma@h...> wrote:
> Just ordered my Hex-Beam five band version about 2 weeks ago.
Seems
> they are having problems with delivery of the fiberglass spreader
> rods, so a delay in sending it to me.

I ordered a 20-meter mono version a few weeks ago. When it got here I decided that if I was going to go through the effort to get it up in the air, I just as well spend the extra $$ and go whole-hog. Mike took the monobander back without question (it was never installed) and took my order for the 5-band unit. He told me they were backordered but expected to ship this week or next.

The hexbeam is more $$ than a standard (or mini) yagi but I looked at the total cost of the package. I figure that by the time I get this guy in the air, I'll have about USD975 into it, including the 33' mast, rotor, and cable. If I already had a tower and rotor in the air, the additional cost of the hexbeam would have been a negative factor. But after comparing the hexbeam's ice and wind loading to a conventional yagi (not to mention ease of assembly), it would have won anyway.

When I get it on the air, I'll post my first impressions.

73's,
Lynn, KU7Q

77. "Miniaturized Antennas" article from 1995

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-14 05:16:57 UTC
From: w4wb
Topic: 77 Message: 77

I have posted a copy of the article Mike Traffie wrote in Communications Technology in Apring 1995. Some of you might find it interesting since there are general formulas and specific dimensions for a 20-m Hex-Beam. You can find the article in the Files area of this reflector (have to use the web version to access).

73 de Barry - W4WB

78. Hex-beam users group un-net frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-16 02:20:39 UTC
From: wb6roh
Topic: 78 Message: 78

To allow Hex users, "wannabees" and "maybewannabees" to get together on the air, I would like to propose some frequencies:

20 meters 14256
17 meters 18156
15 meters 21356
12 meters 24956
10 meters 28356

Suggested times are 2300 CUT on Saturdays and Sundays. Weekdays could be flexible to meet the needs of the working stiffs and the retired, maybe 0100 CUT. Please respond with a post with your thoughts and / or suggestions. When enough of a concensus is reached, Barry - W4WB can put out the word.

73 - Doug - WB6ROH

79. Re: Homebrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-16 21:18:57 UTC
From: monteolsen1
Topic: 39 Message: 79

Hi David,

Any relation to the David Douglas of Douglas fir fame? There is a
David Douglas High School in Portland, OR.

If you have information on parts and other items needed for your
antenna, it would be interesting to read it. I am also interested in
home brewing a multi-band version of this great antenna.

Monte
N7FFO

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Thanks for the replies regarding homebrewing hex-beams!!
>
> I agree that making a 5 bander would be a time consuming process,
and a bit
> tricky to get resonance on all bands. I tend to think that the
mechanics of
> being able to easily prune and adjust the wire elements is the main
hurdle
> to overcome!!
>
> Anyway, I have 2 weeks holiday coming up, I've assembled most of
the parts,
> and I have a fairly big incentive (an approximate $600US saving on
the
> pre-made version).
>
> I plan to take photos, and compile all the construction data once
complete,
> so I'll post the info to anyone interested.
>
> Regards all
>
> David, VK2DPD
> ----- Original Message -----
> From: "Floyd Sense" <k8ac@a...>
> To: <hex-beam@y...>
> Sent: Wednesday, December 05, 2001 11:06 PM
> Subject: Re: [hex-beam] Homebrew Hex Beam
>
>
> > I agree with your comment about it being a good home-brew
candidate.
> > However, the two or three home-brew attempts I'm aware of have

been either
> > one or two banders. Anyone contemplating a five band model using
a single
> > feedline should have lots of time to experiment, and a tilt-over
or
> > telescoping tower. I understand from talking to Mike Traffie
that
> > considerable experimentation went into the five band model. For
example,
> > the 20 meter elements are not resonant where one would think they
would
> be,
> > and they are different from the elements used on the 20 meter
monobander.
> >
> > If I had another tower and no neighborhood restrictions, I'd
certainly
> have
> > a home-brew 40 meter model in the air! I wonder if anyone has
tried a
> > home-brew 5 bander with separate feedlines. I'd guess you'd have
to
> switch
> > both sides of the coax feedline with relays to minimize
interactions, and
> > maybe that wouldn't be sufficient?
> >
> > K8AC
> > Floyd Sense - Angier, NC
> > ----- Original Message -----
> > From: "David Douglass" <vk2dpd@b...>
> > To: "HEX-BEAM" <hex-beam@y...>
> > Sent: Wednesday, December 05, 2001 15:40 PM
> > Subject: [hex-beam] Homebrew Hex Beam
> >
> >
> > > For those interested in a much (much) cheaper alternative to
the "off
> the
> > > shelf version", have a look at....
> > >
> > > http://www.iol.ie/~bravo/ahexbeam.htm
> > >
> > > I'd be interested to hear from anyone who have tried to make
one of
> these,
> > > or who is planning to do so.
> > >
> > > My thoughts are that the hex-beam is a home-brewers dream!!
> > >

> > > Regards to all
> > >
> > > David, VK2DPD
> > > vk2dpd@q...
> > > vk2dpd@b...
> > >
> > >
> > >
> > >
> > > Your use of Yahoo! Groups is subject to
> http://docs.yahoo.com/info/terms/
> > >
> > >
> > >
> >
> >
> >
> > To unsubscribe from this group, send an email to:
> > hex-beam-unsubscribe@y...
> >
> >
> >
> > Your use of Yahoo! Groups is subject to
http://docs.yahoo.com/info/terms/
> >
> >

80. Re: Comparing small beams, thinking of buying

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-16 21:39:48 UTC
From: monteolsen1
Topic: 22 Message: 80

Hi,

I own an HF5B. It is a serviceable antenna and construction is fairly straight forward, though complicated in spots, but if I had it to due over, I would buy a Hex beam or cubicle quad. I'm one of those guys who feels that you not only pay for an antenna but also for customer service. I have not been real impressed with Butternut's somewhat moody customer service.

--- In hex-beam@y..., chris_colliver@y... wrote:
> I have just joined the group. My call is wo8usa. I am considering
> the follwing for purhase:
> --Hexbeam HX5B
> --Cushcraft MA5B
> --Butternut HF5B
> --HyGain TH2MH3
> --TGM MQ-2
>
> As I get data together I will post it. I am especially interested
in
> overall size (so as to reduce needed infraststructure such as
rotor),
> bands, gain, etc. Other opinions about these antennas will be
> greatly appreciated--I will by one. Wintertime antenna dreams are
> great, kind of like getting ready for fishing season I guess.
>
> Looks like a great group! Thanks for forming it,
>
> Chris wo8usa Dayton Ohio

81. Re: Hex-beam users group un-net frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-17 02:52:22 UTC
From: tomac14
Topic: 78 Message: 81

Hi Doug:

I like your idea for a hexbeam users(and wannabees) net. But how
about a time on Saturday mornings instead of Saturday evenings?

Tom, N0YD, "Yankee Doodle"

--- In hex-beam@y..., "wb6roh" <wb6roh@a...> wrote:
> To allow Hex users, "wannabees" and "maybewannabees" to get
together
> on the air, I would like to propose some frequencies:
>
> 20 meters 14256
> 17 meters 18156
> 15 meters 21356
> 12 meters 24956
> 10 meters 28356
>
> Suggested times are 2300 CUT on Saturdays and Sundays. Weekdays
could
> be flexible to meet the needs of the working stiffs and the
retired,
> maybe 0100 CUT. Please respond with a post with your thoughts and /
> or suggestions. When enough of a concensus is reached, Barry - W4WB
> can put out the word.
>
> 73 - Doug - WB6ROH

82. Re: Hex-beam users group un-net frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-17 03:36:22 UTC
From: wb6roh
Topic: 78 Message: 82

When enough people submit their preferences and we get a concensus,
time and frequencies will be posted. After this hopefully we will
have enough participation to provide value to all.

Doug

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> Hi Doug:
>
> I like your idea for a hexbeam users(and wannabees) net. But how
> about a time on Saturday mornings instead of Saturday evenings?
>
> Tom, N0YD, "Yankee Doodle"
>
>
> --- In hex-beam@y..., "wb6roh" <wb6roh@a...> wrote:
> > To allow Hex users, "wannabees" and "maybewannabees" to get
> together
> > on the air, I would like to propose some frequencies:
> >
> > 20 meters 14256
> > 17 meters 18156
> > 15 meters 21356
> > 12 meters 24956
> > 10 meters 28356
> >
> > Suggested times are 2300 CUT on Saturdays and Sundays. Weekdays
> could
> > be flexible to meet the needs of the working stiffs and the
> retired,
> > maybe 0100 CUT. Please respond with a post with your thoughts
and /
> > or suggestions. When enough of a concensus is reached, Barry -
W4WB
> > can put out the word.
> >
> > 73 - Doug - WB6ROH

83. Re: [hex-beam] Re: Homebrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-17 08:31:35 UTC
From: David Douglass
Topic: 39 Message: 83

Monte,

I hope to be able to post something to the group after Xmas, after I have assembled the antenna. I'll also take some photo's to illustrate my plans!!

I'm currently having a few problems getting fibreglass spreaders, as there near impossible to buy over here. If fishing rod blanks are too expensive, I'll stick with long lengths of dowel, which I currently have supporting the elements of my Moxon Rectangle (been up 3 years without any breakage).

The centre section is the end piece from a drum of Belden Coax (as per EI7BA web-site), and a length of UPVC pipe. Wire will be very heavy duty speaker cable, with an arrangement at the end so that the element can be pruned without having to re-tension the whole antenna.

Anyway, best wishes with your effort and I hope to have something to show all by the new year.

Regards

David, VK2DPD

PS. I'd be interested to hear from anyone who now the layout of the feeder system for the "off the shelf" model. I have a few ideas for my homebrew effort, but would be interested to see the real thing.

----- Original Message -----
From: monteolsen1
To: hex-beam@yahoogroups.com
Sent: Sunday, December 16, 2001 9:18 PM
Subject: [hex-beam] Re: Homebrew Hex Beam

Hi David,

Any relation to the David Douglas of Douglas fir fame? There is a
David Douglas High School in Portland, OR.

If you have information on parts and other items needed for your
antenna, it would be interesting to read it. I am also interested in
home brewing a multi-band version of this great antenna.

Monte
N7FFO

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Thanks for the replies regarding homebrewing hex-beams!!
>
> I agree that making a 5 bander would be a time consuming process,
and a bit

> tricky to get resonance on all bands. I tend to think that the
mechanics of
> being able to easily prune and adjust the wire elements is the main
hurdle
> to overcome!!
>
> Anyway, I have 2 weeks holiday coming up, I've assembled most of
the parts,
> and I have a fairly big incentive (an approximate $600US saving on
the
> pre-made version).
>
> I plan to take photos, and compile all the construction data once
complete,
> so I'll post the info to anyone interested.
>
> Regards all
>
> David, VK2DPD
> ----- Original Message -----
> From: "Floyd Sense" <k8ac@a...>
> To: <hex-beam@y...>
> Sent: Wednesday, December 05, 2001 11:06 PM
> Subject: Re: [hex-beam] Homebrew Hex Beam
>
>
> > I agree with your comment about it being a good home-brew
candidate.
> > However, the two or three home-brew attempts I'm aware of have
been either
> > one or two banders. Anyone contemplating a five band model using
a single
> > feedline should have lots of time to experiment, and a tilt-over
or
> > telescoping tower. I understand from talking to Mike Traffie
that
> > considerable experimentation went into the five band model. For
example,
> > the 20 meter elements are not resonant where one would think they
would
> be,
> > and they are different from the elements used on the 20 meter
monobander.
> >
> > If I had another tower and no neighborhood restrictions, I'd
certainly
> have
> > a home-brew 40 meter model in the air! I wonder if anyone has
tried a
> > home-brew 5 bander with separate feedlines. I'd guess you'd have

to
> switch
> > both sides of the coax feedline with relays to minimize
interactions, and
> > maybe that wouldn't be sufficient?
> >
> > K8AC
> > Floyd Sense - Angier, NC
> > ----- Original Message -----
> > From: "David Douglass" <vk2dpd@b...>
> > To: "HEX-BEAM" <hex-beam@y...>
> > Sent: Wednesday, December 05, 2001 15:40 PM
> > Subject: [hex-beam] Homebrew Hex Beam
> >
> >
> > > For those interested in a much (much) cheaper alternative to
the "off
> the
> > > shelf version", have a look at....
> > >
> > > http://www.iol.ie/~bravo/ahexbeam.htm
> > >
> > > I'd be interested to hear from anyone who have tried to make
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> these,
> > > or who is planning to do so.
> > >
> > > My thoughts are that the hex-beam is a home-brewers dream!!
> > >
> > > Regards to all
> > >
> > > David, VK2DPD
> > > vk2dpd@q...
> > > vk2dpd@b...
> > >
> > >
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[Non-text portions of this message have been removed]

84. Re: [hex-beam] Re: Hex-beam users group un-net frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-17 08:33:26 UTC
From: David Douglass
Topic: 78 Message: 84

Good idea, but all those frequencies seem a little high for CW??

David, VK2DPD
----- Original Message -----
From: wb6roh
To: hex-beam@yahoogroups.com
Sent: Monday, December 17, 2001 3:36 AM
Subject: [hex-beam] Re: Hex-beam users group un-net frequencies

When enough people submit their preferences and we get a concensus,
time and frequencies will be posted. After this hopefully we will
have enough participation to provide value to all.

Doug

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85. KE7FT Reports on Comparison of X7 and HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-17 12:29:17 UTC
From: w4wb
Topic: 85 Message: 85

KE1FT made a post yesterday on eHam.com about his HX-5B. Good reading! See

http://www.eham.net/reviews/detail/860

73 de Barry - W4WB

86. Re: [hex-beam] Re: Homebrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-17 19:13:04 UTC
From: Monte Olsen
Topic: 39 Message: 86

Thanks David. It will be interesting to see your results. Thanks for providing information.

73s,

Monte
N7FFO

>From: "David Douglass" <vk2dpd@...>
>Reply-To: hex-beam@yahoogroups.com
>To: <hex-beam@yahoogroups.com>
>Subject: Re: [hex-beam] Re: Homebrew Hex Beam
>Date: Mon, 17 Dec 2001 08:31:35 -0000
>
>Monte,
>
>I hope to be able to post something to the group after Xmas, after I have
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>the elements of my Moxon Rectangle (been up 3 years without any breakage).
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>The centre section is the end piece from a drum of Belden Coax (as per
>EI7BA web-site), and a length of UPVC pipe. Wire will be very heavy duty
>speaker cable, with an arrangement at the end so that the element can be
>pruned without having to re-tension the whole antenna.
>
>Anyway, best wishes with your effort and I hope to have something to show
>all by the new year.
>
>Regards
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>David, VK2DPD
>
>PS. I'd be interested to hear from anyone who now the layout of the feeder
>system for the "off the shelf" model. I have a few ideas for my homebrew
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>
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> To: hex-beam@yahoogroups.com
> Sent: Sunday, December 16, 2001 9:18 PM
> Subject: [hex-beam] Re: Homebrew Hex Beam
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> N7FFO
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> > Regards all
> >
> > David, VK2DPD
> > ----- Original Message -----
> > From: "Floyd Sense" <k8ac@a...>
> > To: <hex-beam@y...>
> > Sent: Wednesday, December 05, 2001 11:06 PM
> > Subject: Re: [hex-beam] Homebrew Hex Beam
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> > > ----- Original Message -----
> > > From: "David Douglass" <vk2dpd@b...>
> > > To: "HEX-BEAM" <hex-beam@y...>
> > > Sent: Wednesday, December 05, 2001 15:40 PM
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> > > > vk2dpd@q...
> > > > vk2dpd@b...
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87. "Nervous" questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-17 19:30:29 UTC
From: Herbert Meiselman
Topic: 87 Message: 87

Dear All:

Hopefully some simple and fast questions! I have ordered my HX-5Bi antenna and have been told that it shipped last week. Thus, I could start "playing" within the next week or two.

I plan to paint the white spreader rods to make the antenna less visible. Any suggestions on spray paints to use or to avoid? Any problem with some paints being conductive? Any parts not to paint? Paint prior to assembly (see below)?

Mike T. has agreed to a refund if I am not happy...but only if the antenna is NOT painted. Thus, I need to decide about painting either prior to or after assembly and roof mounting. The antenna will be mounted on a Glen Martin 4.5 foot tower on the roof of my 2-story house. The mast will probably be only one foot above the top of the tower (neighbors, wife, etc!). The flat-base "base" of the antenna will thus be about 28-30 feet above ground. Any potential problems? I'd just like to paint the six spreaders first, then start assembly...good/bad idea?

Sorry...turned out to be more questions than I thought!

Best wishes for the holiday season.

Regards,

Herb

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

88. Re: [hex-beam] "Nervous" questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-17 23:59:35 UTC
From: Gordon
Topic: 87 Message: 88

Hi Herb
I too Plan to paint my Hex-Beam (5Bi) for the same reasons One report on e-Ham mentioned it without saying which type of paint was used.
I have actually had my antenna for several months and due to domestic circumstances have only just made a start on the painting, without asking myself all those questions Hi.
I am using a brush on TREMCLAD Rust Paint. dark green colour. The only paint I could find locally in a small tin (237mL)
At least using a brush one does not need to mask the anchor points etc.
Looking forward to any comments that come along.
Gordon

----- Original Message -----
From: Herbert Meiselman
To: hex-beam@yahoogroups.com
Sent: Monday, December 17, 2001 11:30 AM
Subject: [hex-beam] "Nervous" questions

Dear All:

Hopefully some simple and fast questions! I have ordered my HX-5Bi antenna and have been told that it shipped last week. Thus, I could start "playing" within the next week or two.

I plan to paint the white spreader rods to make the antenna less visible. Any suggestions on spray paints to use or to avoid? Any problem with some paints being conductive? Any parts not to paint? Paint prior to assembly (see below)?

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Regards,

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89. Re: "Nervous" questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-18 01:16:51 UTC
From: w4wb
Topic: 87 Message: 89

Hi Herb and Gordon,

I didn't paint my HX-5B yet but will the next time it is taken down, but have painted my Titan vertical. I used Rustolium Ultra-Flat Black (found it at Lowes). To hide it, you need to reduce reflections from the antenna. This paint works well and holds up to the weather. I still have to look hard to find the Titan since there are tall bushes and trees in the background. Neighbors and the XYL just don't see it anymore. :-)

73 de Barry - W4WB

90. Re: [hex-beam] Re: "Nervous" questions Tnx Barry

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-18 02:22:46 UTC
From: Gordon
Topic: 90 Message: 90

Barry
Many Thanks for the reply, duly noted.
72/3 de Gordon VA7XG

----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Monday, December 17, 2001 5:16 PM
Subject: [hex-beam] Re: "Nervous" questions

Hi Herb and Gordon,

I didn't paint my HX-5B yet but will the next time it is taken down, but have painted my Titan vertical. I used Rustolium Ultra-Flat Black (found it at Lowes). To hide it, you need to reduce reflections from the antenna. This paint works well and holds up to the weather. I still have to look hard to find the Titan since there are tall bushes and trees in the background. Neighbors and the XYL just don't see it anymore. :-)

73 de Barry - W4WB

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91. Re: [hex-beam] "Nervous" questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-18 02:22:45 UTC
From: Floyd Sense
Topic: 87 Message: 91

My HX-5B has been up for 19 months now with no signs of paint failure. I used Krylon in a spray can - flat black. It's available at Lowes, ACE hardware, other home improvement stores. The antenna was completely assembled first, and mounted on a short piece of pipe a couple of feet off the ground. I first wiped the spreaders with alcohol and cleaned the spreader plate and bolts with Gunk prior to assembly. I applied a light coat of paint - just enough to hide the white. I decided not to use a brush because I didn't want a thick layer that might crack and peel later in our wide temperature variations. Painting the assembled antenna was a very fast and efficient process, since I could paint all sides of the spreaders without having to wait for one side to dry first. I did not paint the PVC center feed pipe - but would do so if I had it to do over again. I understand that PVC is prone to deterioration over time from sunlight and we have an over-abundance of that in NC.

If you run high power into the antenna at that proximity to the house, expect to see lots of interference to electronic devices in the home. My installation is similar, with the antenna mounted at the top of a 36 foot tower that's secured to the eaves of the house. I had to install a lot of chokes on AC lines to tame the worst of the interference. If I run only 150 watts, there's no problem at all, of course. This isn't unique to the hexbeam - you can expect the same problems from any antenna very close to the house.
K8AC
Floyd Sense - Angier, NC
----- Original Message -----
From: Herbert Meiselman
To: hex-beam@yahoogroups.com
Sent: Monday, December 17, 2001 14:30 PM
Subject: [hex-beam] "Nervous" questions

Dear All:

Hopefully some simple and fast questions! I have ordered my HX-5Bi antenna and have been told that it shipped last week. Thus, I could start "playing" within the next week or two.

I plan to paint the white spreader rods to make the antenna less visible. Any suggestions on spray paints to use or to avoid? Any problem with some paints being conductive? Any parts not to paint? Paint prior to assembly (see below)?

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92. IMPORTANT NOTICE - Price Change for Hex-Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-19 05:28:38 UTC
From: w4wb
Topic: 92 Message: 92

Hi Folks,

I just looked at Traffie's Hex-Beam web site and noticed that an updated to the "T-TECH DESK" was made. Bottom line is that they are raising the price of Hex-Beams. You should read the entire letter/notice (see http://www.hexbeam.com/ttechdesk.shtml) to understand why this action is necessary.

In it they state that

"As a company, we have come to a cross-road. While concentrating on getting HEX-BEAMS "out there" we haven't realized that costs have crept up on us and that we have been selling antennas for less than they cost us! We now recognize something must be done if we are to continue forward."

and that

"As of January 1, 2002 the new price for the HX-5Bi will be $989.00 + S/H. Prices of other arrays will change accordingly. Present prices will remain in effect through December 31, 2001."

So if you have been thinking about buying a Hex-Beam, now is a good time to do so it would seem.

Best Holiday wishes to all and may 2002 be a great year for DX!

73 de Barry - W4WB

93. Re: [hex-beam] IMPORTANT NOTICE - Price Change for Hex-Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-19 12:03:32 UTC
From: David Douglass
Topic: 92 Message: 93

Well! Just bought the remainder of my hardware today for the homebrew Hex. Total cost will be in the region of $100-120 (Australian), about $60US.

If I can only get the thing to work I think I will of made the right choice.

CU

David, VK2DPD
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Wednesday, December 19, 2001 5:28 AM
Subject: [hex-beam] IMPORTANT NOTICE - Price Change for Hex-Beams

Hi Folks,

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94. Re: [hex-beam] Re: Homebrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-19 17:19:12 UTC
From: Hisashi T Fujinaka
Topic: 39 Message: 94

On Mon, 17 Dec 2001, David Douglass wrote:

> I'm currently having a few problems getting fibreglass spreaders, as
> there near impossible to buy over here. If fishing rod blanks are too
> expensive, I'll stick with long lengths of dowel, which I currently have
> supporting the elements of my Moxon Rectangle (been up 3 years without
> any breakage).

Cabelas sells some very cheap fishing poles. I live in Portland, OR, near Woodland, WA, the fishing pole blank capital (Talon, Lamiglas, G. Loomis, and others I'm forgetting) and I haven't found anything cheaper yet.

--
Hisashi T Fujinaka - htodd@...
BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte

95. Re: [hex-beam] IMPORTANT NOTICE - Price Change for Hex-Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-19 17:47:54 UTC
From: Monte Olsen
Topic: 92 Message: 95

David,

I sure hope you post your results here. I am also interested in home brewing a hex beam and would like to know where to start after ya finish.

Thanks again and 73s,

Monte
N7FFO

----- Original Message -----
From: David Douglass
Sent: Wednesday, December 19, 2001 4:06 AM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] IMPORTANT NOTICE - Price Change for Hex-Beams

Well! Just bought the remainder of my hardware today for the homebrew Hex. Total cost will be in the region of $100-120 (Australian), about $60US.

If I can only get the thing to work I think I will of made the right choice.

CU

David, VK2DPD
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Wednesday, December 19, 2001 5:28 AM
Subject: [hex-beam] IMPORTANT NOTICE - Price Change for Hex-Beams

Hi Folks,

I just looked at Traffie's Hex-Beam web site and noticed that an updated to the "T-TECH DESK" was made. Bottom line is that they are raising the price of Hex-Beams. You should read the entire letter/notice (see http://www.hexbeam.com/ttechdesk.shtml) to understand why this action is necessary.

In it they state that

"As a company, we have come to a cross-road. While concentrating on getting HEX-BEAMS "out there" we haven't realized that costs have crept up on us and that we have been selling antennas for less than they cost us! We now recognize something must be done if we are to continue forward."

and that

"As of January 1, 2002 the new price for the HX-5Bi will be $989.00 + S/H. Prices of other arrays will change accordingly. Present prices will remain in effect through December 31, 2001."

So if you have been thinking about buying a Hex-Beam, now is a good time to do so it would seem.

Best Holiday wishes to all and may 2002 be a great year for DX!

73 de Barry - W4WB

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96. Re: [hex-beam] Re: Homebrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-19 19:34:09 UTC
From: David Douglass
Topic: 39 Message: 96

Thanks for the information. A local fishing shop are selling 12foot fishing rods with reels for $35Australian. Not sure what I would do with 6 fishing reels??

Regards

David, VK2DPD
----- Original Message -----
From: Hisashi T Fujinaka
To: hex-beam@yahoogroups.com
Sent: Wednesday, December 19, 2001 5:19 PM
Subject: Re: [hex-beam] Re: Homebrew Hex Beam

On Mon, 17 Dec 2001, David Douglass wrote:

> I'm currently having a few problems getting fibreglass spreaders, as
> there near impossible to buy over here. If fishing rod blanks are too
> expensive, I'll stick with long lengths of dowel, which I currently have
> supporting the elements of my Moxon Rectangle (been up 3 years without
> any breakage).

Cabelas sells some very cheap fishing poles. I live in Portland, OR, near Woodland, WA, the fishing pole blank capital (Talon, Lamiglas, G. Loomis, and others I'm forgetting) and I haven't found anything cheaper yet.

--
Hisashi T Fujinaka - htodd@...
BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte

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97. Re: Homebrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-19 20:43:36 UTC
From: w4wb
Topic: 39 Message: 97

Hi David,

Simple answer. Make knock-offs of EZ-HANGs. Just need to get some slingshots and 1 oz lead weights. Bet you can make your investment back then! Errr... are you folks down-under allowed to have slingshots now or have they been banned also?

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Thanks for the information. A local fishing shop are selling 12foot fishing rods with reels for $35Australian. Not sure what I would do with 6 fishing reels??
>
> Regards
>
> David, VK2DPD

98. Re: [hex-beam] Re: Homebrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-19 22:34:38 UTC
From: Floyd Sense
Topic: 39 Message: 98

Sell the reels on eBay!
K8AC
Floyd Sense - Angier, NC
----- Original Message -----
From: David Douglass
To: hex-beam@yahoogroups.com
Sent: Wednesday, December 19, 2001 14:34 PM
Subject: Re: [hex-beam] Re: Homebrew Hex Beam

Thanks for the information. A local fishing shop are selling 12foot fishing rods with reels for $35Australian. Not sure what I would do with 6 fishing reels??

Regards

David, VK2DPD

[Non-text portions of this message have been removed]

99. Selling Redundant Fishing Reels from Home-Brew HEX-BEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-19 23:34:48 UTC
From: w4wb
Topic: 39 Message: 99

Interesting solution Floyd. Just for fun, I looked at eBay to see if there was market on eBay for fishing reels in Australia. I was rather surprised that I found 12 offerings!

BTW David, what is your goal in achieving impendance matching for the several bands? Are you going to attempt a single feed like Traffie or separate/switched feeds? Any plans to use a matching network if you don't achieve the direct match?

73 de Barry - W4WB

--- In hex-beam@y..., "Floyd Sense" <k8ac@a...> wrote:
> Sell the reels on eBay!
> K8AC
> Floyd Sense - Angier, NC
>
> Thanks for the information. A local fishing shop are selling 12foot fishing rods with reels for $35Australian. Not sure what I would do with 6 fishing reels??
>
> Regards
>
> David, VK2DPD

100. spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 00:45:21 UTC
From: Hal Williams
Topic: 100 Message: 100

There are a lot of used fiberglass Quads usually available if one asks around. Those spreaders are about 13 feet long, and it seems that a 6 band version could be made using them (30 thru 10 meters). Also, the quad uses 8 arms, so you would have two spares.
Hal, N6TZ

101. Re: [hex-beam] Re: Homebrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 01:13:14 UTC
From: Hisashi T Fujinaka
Topic: 39 Message: 101

Attach them to six slingshots and give them to friends to put up temporary antennas.

On Wed, 19 Dec 2001, David Douglass wrote:

> Thanks for the information. A local fishing shop are selling 12foot fishing rods with reels for $35Australian. Not sure what I would do with 6 fishing reels??
>
> Regards
>
> David, VK2DPD
> ----- Original Message -----
> From: Hisashi T Fujinaka
> To: hex-beam@yahoogroups.com
> Sent: Wednesday, December 19, 2001 5:19 PM
> Subject: Re: [hex-beam] Re: Homebrew Hex Beam
>
>
> On Mon, 17 Dec 2001, David Douglass wrote:
>
> > I'm currently having a few problems getting fibreglass spreaders, as
> > there near impossible to buy over here. If fishing rod blanks are too
> > expensive, I'll stick with long lengths of dowel, which I currently have
> > supporting the elements of my Moxon Rectangle (been up 3 years without
> > any breakage).
>
> Cabelas sells some very cheap fishing poles. I live in Portland, OR, near
> Woodland, WA, the fishing pole blank capital (Talon, Lamiglas, G.
> Loomis, and others I'm forgetting) and I haven't found anything cheaper
> yet.
>
> --
> Hisashi T Fujinaka - htodd@...
> BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte
>
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--
Hisashi T Fujinaka - htodd@...
BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte

102. Price increase: Is it worth it?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 04:47:27 UTC
From: acbdzw
Topic: 102 Message: 102

I understand the rationale why Traffie Technology has to increase the price of the Hex Beam. However an increase of price by over $250 including shipping and handling will dissuade a lot of radio amateurs from purchasing this fine product. The increase in price will bring the antenna to over $1000. The average beam antenna costs much less than that and many radio amateurs who perhaps might have considered purchasing the antenna may now look for a cheaper alternative or try to build their own. I am not an antenna expert but I do wonder whether those who try to build this antenna, especially the 5 band model,will acheive the same results as the Traffie Technology model. Mike Traffie has spent a lot of time and money perfecting his design and whether others can do the same I do not know. I have asked Mike Traffie why he did not patent some of his innovations on the antenna. He indicated that what he did was in the public domain. I am not a patent attorney so he may be correct in that assumption. I do know that the radio amateur market is a small market. Many antenna manufacturers have had to rely on the commercial market to stay in business and their radio amteur business was just a sideline. To my knowledge Traffie Technology only produces antennas for the amateur market. Nevertheless I do remember companies like Telrex,Wilson,Swan and Tet that produced amateur and commercial antennas that are no longer in business. Other companies like Hy-Gain and Cushcraft were faltering and taken over by new owners. Some say that these companies have suffered under their new ownership and the quality of the product and especially customer service is not the same. I cannot say that about Traffie Technology and the Hex Beam. The quality of the product is second to none and the service is excellent. Mike Traffie has been in business for over 10 years now making Hex Beams. I think he has other businesses besides manufacturing the Hex Beam. I do hope that the price increase does not forebode that he will have to end production of the antenna in the future and his company will go the same way as Telrex and the others no longer in business.I wish him and his company many more years of success and innovation and should for whatever reason he no longer can manufacture the antenna I hope he will find a company that will continue to make his antenna according to his standards as was the case with the Alpha amplifier company.
Finally I must conclude by saying that i feel especially fortunate that I bought my Hex Beam over a year and a half ago when the price was only $599 plus shipping and handling. I really got a bargain on the antenna. Even at the new price I would continue to reccomend it but I can understand how many radio amateurs would balk at spending over $1000 for a ham antenna. Alan-K2ACB@...

103. Re: Price increase: Is it worth it?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 05:17:12 UTC
From: w4wb
Topic: 102 Message: 103

Hi Alan,

Like you, I purchased my Hex-Beam almost 1-1/2 years ago at the $600 price. When I considered the selection of the antenna I would put up, I had some real limitations to consider --- the principal being antenna footprint. After looking at the various antennas that fell in the selection envelope, the Hex-Beam won out for three primary reasons. First was anticipated performance. I used input from Traffie somewhat, but really relied on several Hex-Beam users that are serious operators. They had nothing but positive comments. Second was overall system cost. Yes, the antenna costs more than the quads and aluminum Yagis, but you don't need an expensive rotor ($100 Channel Master works fine) nor an expensive tower. An inexpensive Radio Shack push-up mast works fine. When I added it up, the bottom line was about the same to definitely less. The third reason is environmental. I live in an area of frequent high winds and occasional ice. Having suffered damage to antennas from ice and wind in the past, this was most important to me. The design of the Hex-Beam has good wind resistance characteristics (low load factor and minimal torque). I think the proof of its ability was demonstrated with Chuck at the 3Y0C operations. It just can't get much worse than that!

We all will be watching with interest to see the process on the homemade 5-band Hex-Beams. From what I understand from Traffie, the geometry and dimensions are fussy if you want to obtain the performance of a factory Hex-Beam. Took them about a year to perfect the 5-band version I believe.

Hopefully, folks will continue to purchase the Hex-Beams and enjoy the remarkable operating experience that those of us using the Hex-Beam enjoy.

73 de Barry - W4WB

104. Re: [hex-beam] Price increase: Is it worth it?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 05:22:27 UTC
From: Gordon
Topic: 102 Message: 104

Hi Alan ,
I would have to agree with you, I too am glad I "Took the Plunge" at $1300 Cdn (Just missed the $500 US price)
The new price of approx. $1800 Cdn will I am sure discourage many from purchasing this excellent product.
My costs are inclusive of S&H Cdn. Taxes etc.
Gordon VA7XG
Vancouver Island
Canada

----- Original Message -----
From: acbdzw
To: hex-beam@yahoogroups.com
Sent: Wednesday, December 19, 2001 8:47 PM
Subject: [hex-beam] Price increase: Is it worth it?

I understand the rationale why Traffie Technology has to increase the price of the Hex Beam. However an increase of price by over $250 including shipping and handling will dissuade a lot of radio amateurs from purchasing this fine product. The increase in price will bring the antenna to over $1000. The average beam antenna costs much less than that and many radio amateurs who perhaps might have considered purchasing the antenna may now look for a cheaper alternative or try to build their own. I am not an antenna expert but I do wonder whether those who try to build this antenna, especially the 5 band model,will acheive the same results as the Traffie Technology model. Mike Traffie has spent a lot of time and money perfecting his design and whether others can do the same I do not know. I have asked Mike Traffie why he did not patent some of his innovations on the antenna. He indicated that what he did was in the public domain. I am not a patent attorney so he may be correct in that assumption. I do know that the radio amateur market is a small market. Many antenna manufacturers have had to rely on the commercial market to stay in business and their radio amteur business was just a sideline. To my knowledge Traffie Technology only produces antennas for the amateur market. Nevertheless I do remember companies like Telrex,Wilson,Swan and Tet that produced amateur and commercial antennas that are no longer in business. Other companies like Hy-Gain and Cushcraft were faltering and taken over by new owners. Some say that these companies have suffered under their new ownership and the quality of the product and especially customer service is not the same. I cannot say that about Traffie Technology and the Hex Beam. The quality of the product is second to none and the service is excellent. Mike Traffie has been in business for over 10 years now making Hex Beams. I think he has other businesses besides manufacturing the Hex Beam. I do hope

that the price increase does not forebode that he will have to end production of the antenna in the future and his company will go the same way as Telrex and the others no longer in business.I wish him and his company many more years of success and innovation and should for whatever reason he no longer can manufacture the antenna I hope he will find a company that will continue to make his antenna according to his standards as was the case with the Alpha amplifier company.
Finally I must conclude by saying that i feel especially fortunate that I bought my Hex Beam over a year and a half ago when the price was only $599 plus shipping and handling. I really got a bargain on the antenna. Even at the new price I would continue to reccomend it but I can understand how many radio amateurs would balk at spending over $1000 for a ham antenna. Alan-K2ACB@...

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105. Real life comparison

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 06:00:23 UTC
From: Bill Archer
Topic: 105 Message: 105

I have been following the growth of this antenna since it was advertised at under $500 (not all that long ago) and have read many comparisons of the Hex-Beam to dipoles and verticals.

Has anyone had any real life comparisons of the Hex-Beam to yagis or quads?

It appears the Hex-Beam has a lot going for it but I have used a homebrewed 2 element quad on 10m and have had excellent results. Ok, I am a quad fan! When considering the purchase of a new beam I must compare the Hex-Beam to the LighntningBolt 5 band quad at under $300. The extra $450 bucks would make a big dent in the cost of a modest tower/rotor combo.

It seems every time I have the pennies saved up for the Hex-Beam the price takes a major jump and the evaluation process starts all over.

I would assume that the members of this reflector or either Hex-Beam aficionados or on the fence(like me) trying to make up their minds.

Please, lets hear some comparisons to other beam antennas.

Thanks for the bandwidth.

KC5GNB

106. Re: [hex-beam] Re: Price increase: Is it worth it?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 06:06:43 UTC
From: k2acb@arrl.net
Topic: 102 Message: 106

I agree with your comments Barry. But as you did point out price was one of your considerations. Looking back,if you had to pay over $1000 for the Hex Beam at the time you purchased it would you have bought it then? I must be honest and say that had I had to pay that much for the antenna at that time I may have bought a Force12 C3SS instead of the Hex Beam. I am glad I did not have to make that choice then because of the price.

107. Re: Price increase: Is it worth it?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 06:30:04 UTC
From: w4wb
Topic: 102 Message: 107

--- In hex-beam@y..., k2acb@a... wrote:
> I agree with your comments Barry. But as you did point out price was one of your considerations. Looking back,if you had to pay over $1000 for the Hex Beam at the time you purchased it would you have bought it then? I must be honest and say that had I had to pay that much for the antenna at that time I may have bought a Force12 C3SS instead of the Hex Beam. I am glad I did not have to make that choice then because of the price.

Hi Alan,

Good question. At the time I got my Hex-Beam, there were fewer users and the "risk" was higher I guess. Several times more users are on the air now and I have yet to find a Hex-Beam owner that is unhappy. I'm confident that there might be one, or even a few, as that is just life. ;-)

From what I know now and having worked several other HB owners, I think my decision today would lean towards the Hex-Beam (but likely not 18 months ago had the price been almost $1000). By the time I now add up the total system cost (antenna, tower/mast, footing, rotor, cables, etc.) of erecting a C3SS or a Hex-Beam, the numbers are about the same. On the other hand, the time to assemble the Hex-Beam system is definitely less than the C3SS system. FWIW, I have talked to two hams (one an EA8) that have the C3SS and both plan to replace it with a Hex-Beam. I spent quite a bit of time with the EA8 running tests that he asked me to do. The C3SS seems to work well also from those I have heard on the air, but does it perform as well as the Hex-Beam?

73 de Barry - W4WB

108. Re: [hex-beam] Real life comparison

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 09:06:35 UTC
From: Monte Olsen
Topic: 105 Message: 108

Hi Bill,
Do have contact info for the lighteninq bolt quad?

Thanks,

Monte

_____
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109. Re: [hex-beam] Price increase: Is it worth it?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 14:16:45 UTC
From: Mike Melland
Topic: 102 Message: 109

On Thu, 20 Dec 2001 04:47:27 -0000

"acbdzw" <acbdzw@...> wrote:
> I understand the rationale why Traffie Technology has to
> increase the
> price of the Hex Beam. However an increase of price by
> over $250
> including shipping and handling will dissuade a lot of
> radio amateurs
> from purchasing this fine product.

Perhaps the price increase is justified... I just don't know. I had been saving to order one after the Holidays to put up in Spring but now at $1000 or so I think I'll re-evaluate my plans. While my available time is short I think I'll seriously look at building my own... or look at finally getting that Mosley in my shed in the air <grin>.

Costs may indeed have dictated the decision to raise prices... it's hard for smaller manufacturers to compete as it is. I think this is a tough decision for Hex Beam, I just hope it was well timed and thought out or we may be sans another fine product available commercially soon if sales drop dramtically. Hope not..... I'd still like one <grin>.

Mike

--
Michael Melland, W9WIS
Winneconne, WI USA

110. Re: IMPORTANT NOTICE - Price Change for Hex-Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 16:22:35 UTC
From: khopper
Topic: 92 Message: 110

damn shame. I had been dreaming about a HexBeam since last year. Now I will be locked into the Lightning Bolt zone. Antennas just shouldn't cost more than the rig! Perhaps some enterprising ham will come up with a substitute kit (KH6RQ M-Beam?).

de ken n9vv

111. Re: [hex-beam] Real life comparison

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 16:44:48 UTC
From: Hisashi T Fujinaka
Topic: 105 Message: 111

http://www.lightningboltantennas.com has info.

On Thu, 20 Dec 2001, Monte Olsen wrote:

> Hi Bill,
> Do have contact info for the lighteninq bolt quad?
>
> Thanks,
>
> Monte
>
> _____
> Join the world?s largest e-mail service with MSN Hotmail.
> http://www.hotmail.com
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--
Hisashi T Fujinaka - htodd@...
BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte

112. Re: [hex-beam] Real life comparison

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 17:34:16 UTC
From: Monte Olsen
Topic: 105 Message: 112

Thank you Hisashi San.

>From: Hisashi T Fujinaka <htodd@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: Re: [hex-beam] Real life comparison
>Date: Thu, 20 Dec 2001 08:44:48 -0800 (PST)
>
>http://www.lightningboltantennas.com has info.
>
>On Thu, 20 Dec 2001, Monte Olsen wrote:
>
> > Hi Bill,
> > Do have contact info for the lighteninq bolt quad?
> >
> > Thanks,
> >
> > Monte
> >
> > _____
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>
>--
>Hisashi T Fujinaka - htodd@...
>BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte
>

_____
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113. Re: IMPORTANT NOTICE - Price Change for Hex-Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 19:41:27 UTC
From: bbadger
Topic: 92 Message: 113

No kidding. My budget just broke -- I'll have to go with a Gap
vertical now, as there is no way I can come up with the cash for a Hex
Beam.

--
Brian N0KZ

--- In hex-beam@y..., "khopper" <khopper@u...> wrote:
> damn shame. I had been dreaming about a HexBeam since last year. Now
> I will be locked into the Lightning Bolt zone. Antennas just
> shouldn't cost more than the rig! Perhaps some enterprising ham
will
> come up with a substitute kit (KH6RQ M-Beam?).
>
> de ken n9vv

114. Re: [hex-beam] Re: IMPORTANT NOTICE - Price Change for Hex-Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 21:24:16 UTC
From: Bill ROWLETT
Topic: 92 Message: 114

Tell me why the ant. should not cost more than the
rig. What is the most important part of the station??
Too many people put all their money into the latest
and greatest rig, and than pinch pennys on the ant.
and than have the nerve to complain because their new
rig just doesn't seem to work right. Give me a break
folks. If you want a good ant., get one. Put the
larger amount of money where it will do the most good.
THE ANTENNA.

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your unique holiday gifts! Buy at http://shopping.yahoo.com
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115. Price of HB-5Xi

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 22:04:32 UTC
From: Herbert Meiselman
Topic: 115 Message: 115

Dear All:

Just a couple of short comments:

1) Spoke to Mike T. this AM and I am convinced that he really does need to increase the price...lots of labor, including many hours to assemble and install the network inside the center mast. I guess the assembly is pre-made outside, then inserted into the plastic pipe...I wonder how they are able to make all of the necessary connections to the outside screw posts?

2) I tend to share the view that the antenna should be the best possible. I think it is like the current state of "hi fi" systems...the amps, CD changers, tuners, etc are fairly cheap and all of rather high quality, BUT the speakers are the weak link. One does need to spend to get good speakers, otherwise the whole system don't sound good. Maybe the same for transceivers and amps vs. antennas?

73 and all that,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

117. Re: IMPORTANT NOTICE - Price Change for Hex-Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 23:08:22 UTC
From: bbadger
Topic: 92 Message: 117

--- In hex-beam@y..., Bill ROWLETT <kc4atu@y...> wrote:
> What is the most important part of the station??

By far, the most important part of the station is the receiver signal chain of the rig.

--
Brian N0KZ

118. most important part of the station

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 23:33:07 UTC
From: w4wb
Topic: 92 Message: 118

--- In hex-beam@y..., "bbadger" <bbadger@y...> wrote:
> --- In hex-beam@y..., Bill ROWLETT <kc4atu@y...> wrote:
> > What is the most important part of the station??
>
> By far, the most important part of the station is the receiver
signal chain of the rig.
>
> Brian N0KZ

Hi Brian,

Although every part of the signal chain is important, I must agree
with Bill that it all starts with a good antenna. The best receiver
hooked to a dummy load doesn't hear much while even a poor receiver
hears rather well with a good antenna. Frankly, it is hard to find a
really bad receiver today. Most have more than enough sensitivity
(most often well below the atmospheric noise level).

It just occurred to me that I spent far more for the complete set of
filters for my FT-1000MP than I did for the entire Hex-Beam setup I
have. Ummmm.....

Nice part of this hobby is that we can all invest where we desire! :-
)

73 de Barry - W4WB

119. Comaprison chart of "small" beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 23:47:20 UTC
From: chris_colliver
Topic: 119 Message: 119

I promised the group sometime ago to provide this information. Many of you may have it already. The following compares beams which I (being in the market to get a HF beam) believe are comparable from a size/performance standpoint; or at least they are the ones I am considering buying.

Please read chart as:
manufacturer/model/cost/bands/weight(lbs)/turning rad(ft)/wind load

Hexbeam/HX5Bi/750/10thru20/19.5/9.4/unknown
HyGain/TH2MK3/340/10-15-20/20/14.3/3.25
Cuschcraft/MA5B/269/10thru20/26.5/8.8/3.2(no gain 12&17)
Butternut/HF5B/595/10thru20/22/7/3
TGM Comm/MQ-2/369/6thru20/17/7/1.6
Force12/C3SS/579/10thru20/27/13.6/4.4
All antennas have decreasing gain with decreasing frequency.

The following are included for comparison
Cushcraft/A3S/429/10-15-20/27/15.5/4.3
Cushcraft/A3WS/349/12-17/22/14/4/4.1

The lightning bolt quads are not listed because I don't consider them to be in the same size/performance category.

It seems to be all in what your particular requirement is in priority order:
--space available for total system
--budget available
--gain required
--bands required
--pattern required (F/B, BW, etc)
--infrastructure needed for antenna

I have not made my mind up, but certainly will on Hexbeam in the next few days.

If anyone has other antennas they think I should add let me know.

Chris WO8USA Dayton, Ohio
wo8usa@...

120. Comaprison chart of "small" beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-20 23:49:37 UTC
From: chris_colliver
Topic: 119 Message: 120

I promised the group sometime ago to provide this information. Many of you may have it already. The following compares beams which I (being in the market to get a HF beam) believe are comparable from a size/performance standpoint; or at least they are the ones I am considering buying.

Please read chart as:
manufacturer/model/cost/bands/weight(lbs)/turning rad(ft)/wind load

Hexbeam/HX5Bi/750/10thru20/19.5/9.4/unknown
HyGain/TH2MK3/340/10-15-20/20/14.3/3.25
Cuschcraft/MA5B/269/10thru20/26.5/8.8/3.2(no gain 12&17)
Butternut/HF5B/595/10thru20/22/7/3
TGM Comm/MQ-2/369/6thru20/17/7/1.6
Force12/C3SS/579/10thru20/27/13.6/4.4
All antennas have decreasing gain with decreasing frequency.

The following are included for comparison
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The lightning bolt quads are not listed because I don't consider them to be in the same size/performance category.

It seems to be all in what your particular requirement is in priority order:
--space available for total system
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--bands required
--pattern required (F/B, BW, etc)
--infrastructure needed for antenna

I have not made my mind up, but certainly will on Hexbeam in the next few days.

If anyone has other antennas they think I should add let me know.

Chris WO8USA Dayton, Ohio
wo8usa@...

121. For what it is worth?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-21 00:30:11 UTC
From: Herbert Meiselman
Topic: 121 Message: 121

Just received the message from Chris, WO8USA regarding small antennas. I am about to receive my HX-5Bi (shipped last week) and will use it to replace a TGM MQ-2.

My experience with the MQ-2 has not been 100% positive: 1) very narrow SWR <2 range on many of the bands, especially on 20 meters; 2) "unstable" tuning such that both 20 and 17 meters changed (for no good reason I could see) after I had carefully adjusted them. Tuning requires adjusting the lengths of four tuning spokes per band, and to move up the frequency one cuts a bit off each spoke then re-attaches it to the antenna. Even when cutting 1/4 inch at a time, an unexplained change of the antenna requiring longer spokes poses a problem...they are now too short.

In brief, the MQ-2 is not for me! If only 1/2 of the positive comments about the HX-5Bi are true (or if each is only 50% correct), then I will still be much, much happier with my new HexBeam.

73

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

122. Homebrew Beam and prices

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-21 07:24:21 UTC
From: David Douglass
Topic: 122 Message: 122

Interesting to see the 2 camps...

Those that think $1000US isn't too expensive, and those that think it is.

To be honest, I fall firmly into the latter, but my main reason for wanting to try and home-brew one (apart from the fact my wife would kill me for spending $2000AUS+), is that, for me, half the thrill of working DX is doing it on equipment I have built. I don't have the knowledge or skill to build radios, linears and the likes, but antennas are a different matter, and with a little time and patience you can achieve pretty good results.

I've worked about 220 countries this year with my 100watts and homebrew Moxon Rectangle at only 10metres (including the recent P5 and YA DX).

As for feeding my Hex, I had planned to feed all elements with 1 cable, but haven't got around to working out how yet. I tend not to make any firm plans, as I usually change my mind several times during construction anyway. With regard to impedance matching, I've never really been one for requiring a low SWR and I'd be more keen to get a decent F/B ratio on all bands than having SWR under 2:1.

My next hurdle is the actual mechanical strength of the construction. I recently tried some thin (12.5mm) dowel as spreaders, but they were a little "whippy" and "too flexible. I'll try some thicker dowel next and if that fails will go to the expense of the fishing poles (thanks to all for the suggestions on the reels!!). For those who are wary about using wood for antenna supports, I have used it in all my beams and have a good friend who uses dowel spreaders in a 20M quad with no problems.

Anyway, I'll let you know how things pan out after Christmas, and best wishes for the festive season. After all, some things are more important than amateur radio (like drinking lots of Guinness and watching Football).

Regards

David, VK2DPD (M0DPD)
vk2dpd@...
vk2dpd@...

123. Looking for assembly/installation tips for hexbeam HX-5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-21 15:20:01 UTC
From: tomac14
Topic: 123 Message: 123

Hello;

I want to thank all the hexbeam owners who have provided info to me (via email and/or via QSOs on the ham bands) to help me decide whether or not to buy a hexbeam. An unmentioned advantage of the hexbeam is the wonderful community of hexbeam owners.

Finally, I decided in favor of the hexbeam, ordered it(a HX-5Bi) and it is now on its way to my QTH. It will arrive soon.

The purpose of this email is to request info, tips, tricks, etc on assembling it AND installing it. With all assembly projects, there is a Learning Curve. After you finish assembling something, you've learned tips on how you would do it differently if you had to assemble another one. Each time you assemble the same thing you learn more.

I'd like to receive tips on assembly AND installation from current hexbeam owners who have built one before.(Been there, Done that):

Use a coax choke or not?
Use a Radioworks line Isolators or not
Assemble two-piece arm before OR after installing in base plate?
Etc.

Thanks and 73,

Tom, N0YD "Yankee Doodle"

124. PVC

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-21 18:58:54 UTC
From: Norm
Topic: 124 Message: 124

Just a thought about all this talk of spreaders I was wondering if PVC pipe in the smaller diameters would work as spreaders. I don't know how it would hold up weatherwise or what schedule you would use. I have the HX5-B all assembled and sitting in a tripod in the backyard waiting for some help to get it up in the air. luckily I got it after the last price increase but I think I would do it all over again. As a matter of fact I would be interested in the 40 meter model. For those that have never seen one of them I suppose it would be hard to imagine just how labor intensive it is for Mike to put these antennas together. Also for somebody else who asked how the wires are attached to all those screws there is a special connector on the end of the wires that screws onto these screws. Just my 2 cents worth.
Norm W8KNH w8knh2@...

125. Performance Comparison of the HX-5B & a 3-Element Monoband Yagi on 17 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-22 15:42:08 UTC
From: w4wb
Topic: 125 Message: 125

Recently, at my request, Mike Traffie sent me a copy of his log sheets made during comparisons between a (5-band) HX-5B at 35' and a custom-designed, three-element monoband 17-m Yagi located at 42'. The comparisons were made in 1999. Both antennas were located at Traffie's QTH and on different towers.

The 3-element Yagi has, according to the computer model at 40', a TOA of 20 degs, azimuthal beamwidth of 64 degs, forward gain of 13.1 dBi, and a F/B of 24.5 dB. The boom length is 1/3 lambda.

The comparisons were straightforward. The receiving station was asked to judge which of two antennas produced the stronger signal. The HX-5B and the Yagi were designated as A and B; however, the A and the B were randomly assigned to the antennas to help keep the tests as meaningful as possible. Typically, the receiving station provided the RS estimate so that some quantitative assessment might be made. Mike recorded these RS values in his log. I should note that the signal reported ranged from 54 to 59+30.

Without knowing the calibration of each of the receivers, it is meaningless to use the data for any quantitative assessment. It is reasonable to accept that a S7 is weaker than a S8 on the same receiver however.

Combing through the log sheets was an interesting experience. Mike's contemporary notes of the QSOs were often helpful in interpreting a given set of data. QSB situations were noted and such data were excluded from my assessment.

In order to evaluate how well the 2-element HEX-BEAM compared to the 3-element Yagi (3-L), I culled the data to extract those QSOs that appeared to be solid. I then assigned the "winner of the QSO" to the HX-5B, the 3-L, or a draw (receiving station could not determine any difference). I located 54 qualifying QSO. (The power at each antenna was essentially the same.)

Since the two antennas are at about the same height, the performance comparison is generally reasonable; however, the 7' difference in height will slightly change the TOA of the Yagi (if the Yagi was a 35', its TOA would be about 2 degs more). I also note that one would expect that a 3-element beam optimized for 17 m would beat out a 2-element beam essentially all the time.

OK, now the results of my analysis. I note that most of the tests were done using SSB and a few using carriers (best way I submit).

When a station reported a signal was stronger/weaker, it was reported generally in S-units or in 5 dB increments once the signal exceeded S9. In other words, the difference was noticeable to the observer. Differences in TOA will result in where the footprint of the beam from each antenna hits the Earth and can account for some signal differences.

HX-5B 3-Element Yagi
Stronger 20 13
Even 21 21
Weaker 13 20
Total 54 54

Depending upon how you like to play with the numbers, the HX-5B was considered the stronger 37% of the time while the Yagi was stronger 24% of the time. They were reported the same about 39% of the time. Another view is to say that the HX-5B was equal to or stronger than the Yagi 76% of the time while the Yagi was equal to or stronger than the HX-5B 63% of the time.

IMO, this data can indicate no more than the two antennas perform with remarkable similarity. Put another way, the 5-band HX-5B performs, on 17 m at least, as well as a well-designed and constructed 3-element monoband Yagi!

For the FWIW department, I now list the prefixes of the stations comprising the data in the three categories.

HX-5B Stronger:
SM3, PP5, G3,G0,GM3,UT4, N9,W0, WO5, EA2, N8, VE7, UT7, 4N1, SM0, XE1, N7, N9, EI, ON

Both Antennas the Same:
AB7, WB0, EI, DL5, LA7, KB9, G4, GW0, SM7, JA, W4, W0, WA9, N9, G4, VO1, W7, YO, N6, VK1, W9

3-Element Yagi Stronger:
KS4, G4, NG7, EI, KI7, SP2, G3, ON, G0, KV7, PA2, W4, WB9

73 es good DX,
Barry - W4WB

126. Re: For what it is worth?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-22 18:19:07 UTC
From: chris_colliver
Topic: 121 Message: 126

Herbert,

Thanks for the comparison, it is very useful. I would appreciate any such comparisons, good or bad, be brought out for all to see. The new Yagi comparison by Traffie is also interesting.

I am concerned that we are getting too many Pro-Hexbeam views on the group. I may very well buy one, but it sure would be great to get some more side-by-side, real world comparisons from Hex owners of verticals, diploles, etc so some performance can be reported here. Surely all the hexbeam owners didn't through away their dipoles or mobiles!

I believe hexbeam wins the comparisons on from the weight, turning radius, and wind/weather effects perspective. But we need more critical reviews of operations for comparison sake. Many of us may have a decision to make in the next week!

Thanks to all for the continuing discussions....
Chris WO8USA

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> Just received the message from Chris, WO8USA regarding small antennas. I
> am about to receive my HX-5Bi (shipped last week) and will use it to
> replace a TGM MQ-2.
>
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> lengths of four tuning spokes per band, and to move up the frequency one
> cuts a bit off each spoke then re-attaches it to the antenna. Even when
> cutting 1/4 inch at a time, an unexplained change of the antenna requiring
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> In brief, the MQ-2 is not for me! If only 1/2 of the positive comments

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> Herb K6HJM
>
>
> Herbert J. Meiselman, ScD
> Professor and Vice-Chair
> Dept. Physiology and Biophysics
> University of Southern California
> Keck School of Medicine
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> (323) 442-1268
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> meiselma@h...

127. A - B comparison of 15 meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-22 20:13:09 UTC
From: wb6roh
Topic: 127 Message: 127

Just had a nice QSO on 15 with Chris, WO8USA, in Ohio.
He had been reading the mail on a previous QSO I was having with Roy, K4HGX/C6A, on Aboco Island, NA-080. Roy and I had been running deltas between my HX-5Bi and my "hortical" doublet. On his end was a Icom 735 with a tri-bander. With a 100-watt carrier from me, he had the Hex at S7 and the "hortical" at S0. On SSB, he "heard" similiarly. He remembered the Hex from Chuck Brady's Bouvet operation.
Chris was running a vertical at 18' and had considerable QSB on the path. During the 35-minute contact, he reported the Hex the winner by 2 "S" units on SSB and when I went to full carrier. I wish him luck as he continues to weigh all the variables between products as plans his new antenna farm.

73 - Doug - WB6ROH

128. Re: [hex-beam] Performance Comparison of the HX-5B & a 3-Element Monoband Yagi on 17 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-22 22:02:53 UTC
From: Floyd Sense
Topic: 125 Message: 128

Interesting. I've been using my HX-5B on all five bands for 19 months now. I've not had another beam up at the same time to compare it to, but it seems to me that the antenna is unusually "hot" on 17 meters. Front/back is the best of all the bands on 17, and the forward lobe appears to be a bit sharper there. Performance in pileups on 17 has been excellent.

K8AC
Floyd Sense - Angier, NC
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Saturday, December 22, 2001 10:42 AM
Subject: [hex-beam] Performance Comparison of the HX-5B & a 3-Element Monoband Yagi on 17 m

Recently, at my request, Mike Traffie sent me a copy of his log sheets made during comparisons between a (5-band) HX-5B at 35' and a custom-designed, three-element monoband 17-m Yagi located at 42'. The comparisons were made in 1999. Both antennas were located at Traffie's QTH and on different towers.

The 3-element Yagi has, according to the computer model at 40', a TOA of 20 degs, azimuthal beamwidth of 64 degs, forward gain of 13.1 dBi, and a F/B of 24.5 dB. The boom length is 1/3 lambda.

The comparisons were straightforward. The receiving station was asked to judge which of two antennas produced the stronger signal. The HX-5B and the Yagi were designated as A and B; however, the A and the B were randomly assigned to the antennas to help keep the tests as meaningful as possible. Typically, the receiving station provided the RS estimate so that some quantitative assessment might be made. Mike recorded these RS values in his log. I should note that the signal reported ranged from 54 to 59+30.

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Since the two antennas are at about the same height, the performance comparison is generally reasonable; however, the 7' difference in height will slightly change the TOA of the Yagi (if the Yagi was a 35', its TOA would be about 2 degs more). I also note that one would expect that a 3-element beam optimized for 17 m would beat out a 2-element beam essentially all the time.

OK, now the results of my analysis. I note that most of the tests were done using SSB and a few using carriers (best way I submit). When a station reported a signal was stronger/weaker, it was reported generally in S-units or in 5 dB increments once the signal exceeded S9. In other words, the difference was noticeable to the observer. Differences in TOA will result in where the footprint of the beam from each antenna hits the Earth and can account for some signal differences.

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Even 21 21
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Total 54 54

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Both Antennas the Same:
AB7, WB0, EI, DL5, LA7, KB9, G4, GW0, SM7, JA, W4, W0, WA9, N9, G4, VO1, W7, YO, N6, VK1, W9

3-Element Yagi Stronger:
KS4, G4, NG7, EI, KI7, SP2, G3, ON, G0, KV7, PA2, W4, WB9

73 es good DX,
Barry - W4WB

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hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

129. Re: A - B comparison of 15 meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-22 23:53:10 UTC
From: chris_colliver
Topic: 127 Message: 129

Just to confirm Doug's comments-----

The Hexbeam was a consistent 2 S-units higher than the other antenna throughout the QSO. I appreciate Doug answering all the questions I posed and would encourage any prospective owner to set up a sked with him (he is more than willing to to this).

But let me tell all of the rest of my day----
--I posted the note requsting comparative reports on Hexbeam and others.
--I called Traffie to find out the shipping charges if I did indeed get a HX5B. I left a message, and did not expect an answer until after Christmas.
--After lunch i went out and found WB6ROH on the air--my first Hexbeam QSO and an answer to my previous post about comparative data.
--At 3:30 at Mike Traffie called me on his own nickle to tell me about the shipping charging (5%) but to also relate several stories and a lot of information. Would another company do this--on a Saturday before Xmas? I think we have all dealth with enough radio companies and others to know the answer. He could have easily blown this off until later but didn't. Mike also told me that, if I did decide to order one and did not like it, just send it back, full refund. I think the quality speaks for itself here.

I think I am confident that the price does indeed buy the highest quality antenna and service. Sure, its not a 6 element monobander, but I can't use one of those.

I will keep all posted..

Chris WO8USA

--- In hex-beam@y..., "wb6roh" <wb6roh@a...> wrote:
> Just had a nice QSO on 15 with Chris, WO8USA, in Ohio.
> He had been reading the mail on a previous QSO I was having with Roy,
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> between my HX-5Bi and my "hortical" doublet. On his end was a Icom
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> 73 - Doug - WB6ROH

130. Re: A - B comparison of 15 meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-22 23:54:13 UTC
From: chris_colliver
Topic: 127 Message: 130

Just to confirm Doug's comments-----

The Hexbeam was a consistent 2 S-units higher than the other antenna throughout the QSO. I appreciate Doug answering all the questions I posed and would encourage any prospective owner to set up a sked with him (he is more than willing to to this).

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> as he continues to weigh all the variables between products as
plans
> his new antenna farm.
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> 73 - Doug - WB6ROH

131. It's really a Xmas gift!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-24 10:04:33 UTC
From: jr1nhd_shin
Topic: 131 Message: 131

Hi friends,

Hope you are spending a peaceful holy night with your loved ones.

Just today, Santa delivered a HX-5Bi to me. My wife envied me.
Thanks for all of your advices given to me till my purchase decision.
I wish to assemble this antenna as early as possible so that I will
come up as a one of Hex freaks someday soon.

Wishing you and your family a blessed Xmas.

73
JR1NHD - Shin

132. Re: It's really a Xmas gift!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-24 16:02:46 UTC
From: wb6roh
Topic: 131 Message: 132

--- In hex-beam@y..., "jr1nhd_shin" <jr1nhd@m...> wrote:
> Hi friends,
>
> Hope you are spending a peaceful holy night with your loved ones.
>
>
> Just today, Santa delivered a HX-5Bi to me. My wife envied me.
> Thanks for all of your advices given to me till my purchase
decision.
> I wish to assemble this antenna as early as possible so that I will
> come up as a one of Hex freaks someday soon.
>
> Wishing you and your family a blessed Xmas.
>
> 73
> JR1NHD - Shin

Congratulations and welcome to the Hexed fraternity! Merry Christmas
and Happy New Year.

73 - Doug - WB6ROH

133. My Hexbeam arrived on Christmas Eve

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-25 16:54:34 UTC
From: tomac14
Topic: 133 Message: 133

Hello to all my hexbeam friends:

I received my hexbeam just in time for Christmas.
It arrived on Christmas Eve. Is Santa great or what???

I haven't opened it yet, but suspect it has a note like others that
I've seen this Christmas:
"Some assembly required and Batteries not included" !!!

I'm really looking forward to getting it assembled and operational.
By the way, I just worked my 105th country on my current vertical
antenna. Wait till I put the "hexbeam" on them!!!

Thanks to all the Hexbeam owners who provide me info that helped in
my selection of the hexbeam and their suggestions and tips for its
assembly. What a great community of Hexbeam owners.

And a Special THANKS to Barry, W4WB for all his help and support.

Tom, N0YD "Yankee Doodle"

134. Re: My Hexbeam arrived on Christmas Eve

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-25 18:27:39 UTC
From: w4wb
Topic: 133 Message: 134

Hi Tom,

Glad the HB arrived. Wonder if you or Shin will get yours up
first? :-)

Good DX es 73 de Barry - W4WB

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
>
>
> Hello to all my hexbeam friends:
>
> I received my hexbeam just in time for Christmas.
> It arrived on Christmas Eve. Is Santa great or what???
>
> I haven't opened it yet, but suspect it has a note like others that
> I've seen this Christmas:
> "Some assembly required and Batteries not included" !!!
>
> I'm really looking forward to getting it assembled and operational.
> By the way, I just worked my 105th country on my current vertical
> antenna. Wait till I put the "hexbeam" on them!!!
>
> Thanks to all the Hexbeam owners who provide me info that helped in
> my selection of the hexbeam and their suggestions and tips for its
> assembly. What a great community of Hexbeam owners.
>
> And a Special THANKS to Barry, W4WB for all his help and support.
>
> Tom, N0YD "Yankee Doodle"

135. Re: My Hexbeam arrived on Christmas Eve

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-25 19:24:00 UTC
From: wb6roh
Topic: 133 Message: 135

Congratulations and welcome to the Hexed fraternity!

73 - Doug - WB6ROH

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
>
>
> Hello to all my hexbeam friends:
>
> I received my hexbeam just in time for Christmas.
> It arrived on Christmas Eve. Is Santa great or what???
>
> I haven't opened it yet, but suspect it has a note like others that
> I've seen this Christmas:
> "Some assembly required and Batteries not included" !!!
>
> I'm really looking forward to getting it assembled and operational.
> By the way, I just worked my 105th country on my current vertical
> antenna. Wait till I put the "hexbeam" on them!!!
>
> Thanks to all the Hexbeam owners who provide me info that helped in
> my selection of the hexbeam and their suggestions and tips for its
> assembly. What a great community of Hexbeam owners.
>
> And a Special THANKS to Barry, W4WB for all his help and support.
>
> Tom, N0YD "Yankee Doodle"

136. Re: My Hexbeam arrived on Christmas Eve

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-25 19:25:27 UTC
From: tomac14
Topic: 133 Message: 136

Hi Barry:

Shin will probably beat me.

I'm going to put the arms together first inside my house. Then I may want to wait for the wx to get warmer so i can work on it outdoors. My tower is lying on my sundeck waiting for a base plate.

I'm really anxious to get it up and running but I want to take my time and do it right.

Thanks for your help and support.

Tom, N0YD

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Hi Tom,
>
> Glad the HB arrived. Wonder if you or Shin will get yours up
> first? :-)
>
> Good DX es 73 de Barry - W4WB
>
>
>
> --- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> >
> >
> > Hello to all my hexbeam friends:
> >
> > I received my hexbeam just in time for Christmas.
> > It arrived on Christmas Eve. Is Santa great or what???
> >
> > I haven't opened it yet, but suspect it has a note like others
that
> > I've seen this Christmas:
> > "Some assembly required and Batteries not included" !!!
> >
> > I'm really looking forward to getting it assembled and
operational.
> > By the way, I just worked my 105th country on my current vertical
> > antenna. Wait till I put the "hexbeam" on them!!!
> >
> > Thanks to all the Hexbeam owners who provide me info that helped
in
> > my selection of the hexbeam and their suggestions and tips for its

> > assembly. What a great community of Hexbeam owners.
> >
> > And a Special THANKS to Barry, W4WB for all his help and support.
> >
> > Tom, N0YD "Yankee Doodle"

137. Re: My Hexbeam arrived on Christmas Eve

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-26 02:34:47 UTC
From: wb6roh
Topic: 133 Message: 137

If you have a garage, put it together in there and set it on a
ladder. I'll bet you a PL-259 that you will work at least 10
countries within 2 days with it setting on a ladder on your
sundeck / patio!

Doug - WB6ROH

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> Hi Barry:
>
> Shin will probably beat me.
>
> I'm going to put the arms together first inside my house. Then I
may
> want to wait for the wx to get warmer so i can work on it outdoors.
My
> tower is lying on my sundeck waiting for a base plate.
>
> I'm really anxious to get it up and running but I want to take my
time
> and do it right.
>
> Thanks for your help and support.
>
> Tom, N0YD
>
>
> --- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> > Hi Tom,
> >
> > Glad the HB arrived. Wonder if you or Shin will get yours up
> > first? :-)
> >
> > Good DX es 73 de Barry - W4WB
> >
> >
> >
> > --- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> > >
> > >
> > > Hello to all my hexbeam friends:
> > >
> > > I received my hexbeam just in time for Christmas.
> > > It arrived on Christmas Eve. Is Santa great or what???
> > >

> > > I haven't opened it yet, but suspect it has a note like others
> that
> > > I've seen this Christmas:
> > > "Some assembly required and Batteries not included" !!!
> > >
> > > I'm really looking forward to getting it assembled and
> operational.
> > > By the way, I just worked my 105th country on my current
vertical
> > > antenna. Wait till I put the "hexbeam" on them!!!
> > >
> > > Thanks to all the Hexbeam owners who provide me info that
helped
> in
> > > my selection of the hexbeam and their suggestions and tips for
its
> > > assembly. What a great community of Hexbeam owners.
> > >
> > > And a Special THANKS to Barry, W4WB for all his help and
support.
> > >
> > > Tom, N0YD "Yankee Doodle"

138. Re: My Hexbeam arrived on Christmas Eve

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-26 06:32:34 UTC
From: ku7q
Topic: 133 Message: 138

--- In hex-beam@y..., "wb6roh" <wb6roh@a...> wrote:
> If you have a garage, put it together in there and set it on a
> ladder. I'll bet you a PL-259 that you will work at least 10
> countries within 2 days with it setting on a ladder on your
> sundeck / patio!
>
> Doug - WB6ROH
>

Mine was shipped last week. I guess I wasn't as good as Shin and Tom
this year since Santa didn't get it delieverd before Christmas! I
only hope that it's sitting in a UPS truck waiting to be delivered
tomorrow. I already have a temporary mast attached to the deck and
that baby's going in the air when it gets here, regardless of the wx!
(BTW, it's 3 degF right now :)

Lynn, KU7Q

139. Any care for wire elements?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-26 12:10:12 UTC
From: Makoto Tanaka
Topic: 139 Message: 139

Hi friends,

It should be sunny (but chilly) tomorrow here so that I can assemble my beam. When I unpacked the box and checked the parts, I had one concern. Do I need to apply any coating on the elements? Manual does not mention about this point. This QTH is very close to Tokyo and the air is not as clean as in Rocky mountain. I appreciate your idea.

73
JR1NHD Shin

[Non-text portions of this message have been removed]

140. Re: Any care for wire elements?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-26 12:28:00 UTC
From: w4wb
Topic: 139 Message: 140

--- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
> Hi friends,
>
> It should be sunny (but chilly) tomorrow here so that I can assemble my beam. When I unpacked the box and checked the parts, I had one concern. Do I need to apply any coating on the elements? Manual does not mention about this point. This QTH is very close to Tokyo and the air is not as clean as in Rocky mountain. I appreciate your idea.
>
> 73
> JR1NHD Shin

Hi Shin,

The only thing I would do is use something like COAX SEAL where the coax connects to the center mast of the HB, and also on each wire connector where they connect to the center mast of the HB. The wire itself should not suffer beyond getting an oxide coating on it over time. This should not degrade RF performance either unless your pollution is so bad that it eats up the wire.

Please take some photos of your installation process and post in the Photos sections. Your roof mount will be interesting to see.

GL on getting the HB installed on the 27th! Hope to hear you on the air soon.

73 de Barry - W4WB

141. It works very well!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-27 07:48:43 UTC
From: Makoto Tanaka
Topic: 141 Message: 141

Hi friends,

I successfully assembled and put up HX-5Bi today on the rooftop of my 6 storey condominium building. I briefly checked the SWR in all band and I observed that SWR is much better than that claimed by Mike Traffie or posted in this mailing list. It is 1.3 at the high end and 1.4 at the low end of 10 meter band. First QSO with this beam was WH6R on 17 meters. We enjoyed a chat for almost one hour by 57-57 all the time.

Thanks for encouragement to choose this antenna. I look foward to QSOing with you very soon. See the photo and you know how I put it up.

73, Shin JR1NHD

[Non-text portions of this message have been removed]

142. Re: It works very well!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-27 12:13:41 UTC
From: w4wb
Topic: 141 Message: 142

Hi Shin,

Congratulations! Thanks for posting the photos. Interesting installation that has the Hex-Beam in the clear.

Hope to work you soon.

73 de Barry - W4WB

143. Re: It works very well!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-27 16:07:05 UTC
From: wb6roh
Topic: 141 Message: 143

Good morning Shin,

Looks like you have a great installation! Being that high and in the clear is a big help in having a low SWR. Mine is at 30' AGL with odds and ends of metal 20' below it. The bottom line is that the antenna takes the power and radiates whatever you get into it. To me the SWR is more of a rig concern. When would you like to sked? 0000 to 0400 CUT is usually good for me into JA. Congratulations and be prepared to put the Hex on the world!

73 - Doug - WB6ROH

--- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
> Hi friends,
>
> I successfully assembled and put up HX-5Bi today on the rooftop of my 6
> storey condominium building. I briefly checked the SWR in all band and I
> observed that SWR is much better than that claimed by Mike Traffie or posted
> in this mailing list. It is 1.3 at the high end and 1.4 at the low end of
> 10 meter band. First QSO with this beam was WH6R on 17 meters. We enjoyed
> a chat for almost one hour by 57-57 all the time.
>
> Thanks for encouragement to choose this antenna. I look foward to QSOing
> with you very soon. See the photo and you know how I put it up.
>
> 73, Shin JR1NHD
>
>
>
> [Non-text portions of this message have been removed]

144. Birds ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-27 16:49:28 UTC
From: Leo Starrenburg PA5LS
Topic: 144 Message: 144

hello listusers,

i'm new to this list and don't own a Hex-Beam, but i'm very interrested.

As my HF antenna will be partly over my neighbours plot -with their kind consent- i wonder how your experience is with birds "parking " on the antenna. I'm not so much worried abt the birds causing a malfunction of sorts, but more abt what they'll deposit on the ground...

tia

73' Leo.

145. Re: Birds ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-27 17:15:43 UTC
From: wb6roh
Topic: 144 Message: 145

Leo,

If you are considering the 5-band Hex, it's turning radius is only 9.5'. Hopefully your mast / tower would be at least that far from the property line. My experience sees small birds with the proportionate amount of feces.

73 - Doug - WB6ROH

--- In hex-beam@y..., "Leo Starrenburg PA5LS" <pa5ls@h...> wrote:
> hello listusers,
>
> i'm new to this list and don't own a Hex-Beam, but i'm very interrested.
>
> As my HF antenna will be partly over my neighbours plot -with their kind
> consent- i wonder how your experience is with birds "parking " on the
> antenna. I'm not so much worried abt the birds causing a malfunction of
> sorts, but more abt what they'll deposit on the ground...
>
> tia
>
> 73' Leo.

146. Re: [hex-beam] Re: Birds ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-27 17:59:25 UTC
From: Leo Starrenburg PA5LS
Topic: 144 Message: 146

Hi Doug,

thanks for the quick answer !

A 9' feet radius would bring the rim just on the boundary so the droppings wouldn't be a problem !

73' Leo.

147. Re: [hex-beam] Re: Birds ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-27 18:24:01 UTC
From: George Franklin
Topic: 144 Message: 147

Hi Guys,

I say put it up and let the droppings fall where they may!

73 de George/W0AV
SOC#101. COG#1
Hamming since '35

148. Re: [hex-beam] Re: It works very well!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-27 21:16:35 UTC
From: Makoto Tanaka
Topic: 141 Message: 148

Good morning Doug,

Thanks. Shame but small questions.....What does AGL mean? and CUT means Central Time in USA? I will be availabe to be on the air this weekend. Please let me know the freqs and the time at your convenience. 10 meters in the morning here should be good over the Pacific.

73 de JR1NHD Shin

[Non-text portions of this message have been removed]

149. Re: It works very well!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-27 21:32:58 UTC
From: wb6roh
Topic: 141 Message: 149

Sorry about my abbreviations. AGL is "above ground level" and CUT is "coordinated universal time" (same as what most call GMT). Your morning is my afternoon and evening as I am in California. You select a few frequencies and times. I will let you know if I can make them.

73 - Doug - WB6ROH

--- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
> Good morning Doug,
>
> Thanks. Shame but small questions.....What does AGL mean? and CUT means
> Central Time in USA? I will be availabe to be on the air this weekend.
> Please let me know the freqs and the time at your convenience. 10 meters in
> the morning here should be good over the Pacific.
>
> 73 de JR1NHD Shin
>
>
> [Non-text portions of this message have been removed]

150. Re: [hex-beam] Birds ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-27 23:05:56 UTC
From: Floyd Sense
Topic: 144 Message: 150

Birds have shown no interest whatsoever in my hexbeam. There are many trees around, so perhaps that's the reason.
K8AC
Floyd Sense - Angier, NC
----- Original Message -----
From: Leo Starrenburg PA5LS
To: Hex-Beam List
Sent: Thursday, December 27, 2001 11:49 AM
Subject: [hex-beam] Birds ???

hello listusers,

i'm new to this list and don't own a Hex-Beam, but i'm very interrested.

As my HF antenna will be partly over my neighbours plot -with their kind consent- i wonder how your experience is with birds "parking " on the antenna. I'm not so much worried abt the birds causing a malfunction of sorts, but more abt what they'll deposit on the ground...

tia

73' Leo.

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[Non-text portions of this message have been removed]

151. 6m Hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-28 00:26:45 UTC
From: n5wdd
Topic: 151 Message: 151

Hello:\

I just discovered this group. I would like to know any information on the 6m version of the Hex-beam.

Any one that has used it their likes/dislikes etc.

152. Re: It works very well!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-28 02:29:05 UTC
From: jr1nhd_shin
Topic: 141 Message: 152

Why don't we meet at 2300Z on 12/28 (0900 on 12/29 in JA) at
28.356MHz as you proposed. Unless I catch your signal, I will
call you at 15 minutes interval till 0000Z. Anyone is welcome
to join this schedule. How thrilling it is!!

73 de JR1NHD Shin

--- In hex-beam@y..., "wb6roh" <wb6roh@a...> wrote:
> Good morning Shin,
>
> Looks like you have a great installation! Being that high and in
the
> clear is a big help in having a low SWR. Mine is at 30' AGL with
odds
> and ends of metal 20' below it. The bottom line is that the antenna
> takes the power and radiates whatever you get into it. To me the
SWR
> is more of a rig concern. When would you like to sked? 0000 to 0400
> CUT is usually good for me into JA. Congratulations and be prepared
> to put the Hex on the world!
>
> 73 - Doug - WB6ROH
>
>

153. Re: 6m Hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-28 02:32:58 UTC
From: w4wb
Topic: 151 Message: 153

--- In hex-beam@y..., "n5wdd" <n5wdd@y...> wrote:
> Hello:\
>
> I just discovered this group. I would like to know any information
> on the 6m version of the Hex-beam.
>
> Any one that has used it their likes/dislikes etc.

Hi N5WDD,

What's your name pse?

I have a 6-m HB in the box. Got the HX-5B up, but haven't had time
to get the other one up yet.

See messages #6 and #73 for some more comments.

73 de Barry - W4WB

154. Re: It works very well!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-28 02:35:25 UTC
From: w4wb
Topic: 141 Message: 154

--- In hex-beam@y..., "jr1nhd_shin" <jr1nhd@m...> wrote:
> Why don't we meet at 2300Z on 12/28 (0900 on 12/29 in JA) at
> 28.356MHz as you proposed. Unless I catch your signal, I will
> call you at 15 minutes interval till 0000Z. Anyone is welcome
> to join this schedule. How thrilling it is!!
>
> 73 de JR1NHD Shin
>
Hi Shin,

Good time for me (5 PM local). Will try to join you and Doug. Hope other will try too.

73 de Barry - W4WB

155. Re: It works very well!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-28 02:36:24 UTC
From: wb6roh
Topic: 141 Message: 155

2300Z is 1500 PST and I will still be at work. Let's try for 0030Z on
12/29, 1030 your time, if possible.

Doug - WB6ROH

--- In hex-beam@y..., "jr1nhd_shin" <jr1nhd@m...> wrote:
> Why don't we meet at 2300Z on 12/28 (0900 on 12/29 in JA) at
> 28.356MHz as you proposed. Unless I catch your signal, I will
> call you at 15 minutes interval till 0000Z. Anyone is welcome
> to join this schedule. How thrilling it is!!
>
> 73 de JR1NHD Shin
>
> --- In hex-beam@y..., "wb6roh" <wb6roh@a...> wrote:
> > Good morning Shin,
> >
> > Looks like you have a great installation! Being that high and in
> the
> > clear is a big help in having a low SWR. Mine is at 30' AGL with
> odds
> > and ends of metal 20' below it. The bottom line is that the
antenna
> > takes the power and radiates whatever you get into it. To me the
> SWR
> > is more of a rig concern. When would you like to sked? 0000 to
0400
> > CUT is usually good for me into JA. Congratulations and be
prepared
> > to put the Hex on the world!
> >
> > 73 - Doug - WB6ROH
> >
> >

156. Sked on 10meter

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-28 03:54:47 UTC
From: jr1nhd_shin
Topic: 141 Message: 156

OK Doug,

I will try to work Barry tomorrow morning and also will look for you on 0030Z 12/29 (0930 here, sorry I showed incorrect time in my last message). Barry, see you tomorrow at 28.365 at 2300Z.

Shin - JR1NHD

--- In hex-beam@y..., "wb6roh" <wb6roh@a...> wrote:
> 2300Z is 1500 PST and I will still be at work. Let's try for 0030Z on
> 12/29, 1030 your time, if possible.
>
> Doug - WB6ROH
>
>
>

157. Re: 6m Hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-28 16:43:38 UTC
From: n5wdd
Topic: 151 Message: 157

Sorry;/

Name here is Steve, I just recently got on the net and am learning
how to use these groups. I am interested in the 6m Hex-beam and wanted
to hear some comments about It. Pros/cons etc. I have a 6m 4ele. quad
about to go up on my tower how will it compare ??

Steve H.
N5WDD
--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@y..., "n5wdd" <n5wdd@y...> wrote:
> > Hello:\
> >
> > I just discovered this group. I would like to know any information
> > on the 6m version of the Hex-beam.
> >
> > Any one that has used it their likes/dislikes etc.
>
> Hi N5WDD,
>
> What's your name pse?
>
> I have a 6-m HB in the box. Got the HX-5B up, but haven't had time
> to get the other one up yet.
>
> See messages #6 and #73 for some more comments.
>
> 73 de Barry - W4WB

158. Re: most important part of the station

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-28 20:34:10 UTC
From: bbadger
Topic: 92 Message: 158

I do, actually, disagree. Usually receiver sensitivity is high -- making a hot preamp isn't rocket science. It's adjacent channel interference that makes the most difference in terms of QSO efficacy, and defeating that requires good headroom and good filters. Actually, a dummy load with a modern low-noise preamp works just fine as a receiving antenna... doesn't transmit that well, though. It's easy to make up for 60db of isolation on the rx preamp side.

Look at the differences in terms of gain between the best and the worst high band HF antennas (less than 20 db). Then look at the difference in terms of dynamic range between the best and worst receivers -> more than 40 db!

Antennas are important, but not as important as the receiver. I love QRP, and the difference at QRP levels is how good the rx stage is -- particularly on 20m when the kilowatt ragchewers hop on top. May God Bless and Keep the Alligators.... far from my operating frequency.

BTW: All of my bellyaching about the price increase just dissolved. I called Traffie and they will not be able to build or ship an HX-5B to me until March... at which time I will have the money to buy it. As a result, I ordered it at the $749 price!

So, come March, I'll be a Hex Beam Owner, and depending on the amount of snowfall we get, I may actually be able to put it up before June.
--
Brian N0KZ

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Hi Brian,
>
> Although every part of the signal chain is important, I must agree
> with Bill that it all starts with a good antenna. The best receiver
> hooked to a dummy load doesn't hear much while even a poor receiver
> hears rather well with a good antenna.

159. We missed you, Barry

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-29 02:15:34 UTC
From: Makoto Tanaka
Topic: 159 Message: 159

I made a first-ever QSO with WB6ROH today. We could communicate on 10, 12, 15 and 17. Then I happen to talk with John W3UX on 12 meters using HX-5B.

When I checked the SWR again in five bands, it was 1.7 to 1.8 at the low end of 20 meter band. I believe that this element is a stadanrd one, not for SSB band. At the high end of the band it is very good almost 1.0. Do you see the similar situation?

73 de JR1NHD Shin

[Non-text portions of this message have been removed]

160. Re: We missed you, Barry

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-29 02:32:36 UTC
From: w4wb
Topic: 159 Message: 160

--- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
> I made a first-ever QSO with WB6ROH today. We could communicate on 10, 12, 15 and 17. Then I happen to talk with John W3UX on 12 meters using HX-5B.
>
> When I checked the SWR again in five bands, it was 1.7 to 1.8 at the low end of 20 meter band. I believe that this element is a stadanrd one, not for SSB band. At the high end of the band it is very good almost 1.0. Do you see the similar situation?
>
> 73 de JR1NHD Shin
>

Hi Shin,

I was on at 2300Z on 28.365 rather than 28.356 where you were. Traffie was on too. I had two QSOs with other JAs near you with them saying I had a booming signal (20 over 9). Glad you guys did get together. Will have to try again (being sure of the frequency, hi hi).

The reason your SWR is higher on the low end of 20 m is due to the fact that the SWR rises rapidly at the bottom of the 20 m band. My SWR riases to 1.6 at 14.000 from about 1.4 at 14.010.

So how do you like your HX-5B so far?

73 de Barry - W4WB

161. It arrived!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-29 03:16:07 UTC
From: Meiselman
Topic: 161 Message: 161

The good news is that UPS delivered it (the HX-5Bi) on the 27th and it arrived in perfect condition. I have already sprayed all the fiberglass rods with Rust-Olem light grey auto primer...it dries very, very flat and will be better against the sky than flat black (I hope).

Two brief questions (to Dr. Barry?):

1) Since I ordered the shorter SSB wires for 20 meters, I assume I will need to slightly adjust the positions of the attachment for the other 4 bands. At least the instruction sheet seems to suggest this will be necessary to take out any sag in the wires for the other 4 bands. To do this, I assume I move each clamp/holder just a small amount away from the central axis of the antenna...is this correct?

2) At the top of the center post, the instructions call for the coax to go up and over the top. I have a new 90 degree connector which I plan to attach to the center post with the female end pointing straight up. This will make the loop easier and less stressful on the coax. Any problem with this idea?

Final assembly/mounting/testing/enjoying will be delayed a bit due to family plans, rain, etc.

Best wishes to all for 2002.

73, Herb K6HJM
Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

162. Re: It arrived!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-29 04:17:12 UTC
From: wb6roh
Topic: 161 Message: 162

Hi Herb,

I also ordered the 20 meter SSB elements for the HX-5Bi. Just set the assembled Hex on a ladder, drum or bucket. Starting with the 17 meter ferrules, loosen the clamps and ease them a small distance toward the 20 meter elements. Repeat this with the progressively higher bands until all lines have minimal droop. I heartily suggest that this and the whole assembly process goes much easier with 2 people, especially when trying to insert the tensioned elements into the insulators and tightening the set screws.

I would suggest that using a 90 degree adapter adds another mechanical connection and a little more loss. I had no problem coming straight out of the PL-259 and arching up to the top and coming down the side as instructed. I taped it heavily about every 6". Remember that the feedline does not "go over the top" and come down between the reflector halves. It comes down the "cold side" between a driven half and a reflector half. This is adjacent to the post that will meter a short between the SO-239's shell and the driven element's connection stud.

Good luck. Feel free to call me at 310-834-1695 if you need local support.

73 - Doug - WB6ROH

--- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> The good news is that UPS delivered it (the HX-5Bi) on the 27th and it
> arrived in perfect condition. I have already sprayed all the fiberglass
> rods with Rust-Olem light grey auto primer...it dries very, very flat and
> will be better against the sky than flat black (I hope).
>
> Two brief questions (to Dr. Barry?):
>
> 1) Since I ordered the shorter SSB wires for 20 meters, I assume I will
> need to slightly adjust the positions of the attachment for the other 4
> bands. At least the instruction sheet seems to suggest this will be
> necessary to take out any sag in the wires for the other 4 bands. To do
> this, I assume I move each clamp/holder just a small amount away

from the
> central axis of the antenna...is this correct?
>
> 2) At the top of the center post, the instructions call for the
coax to go
> up and over the top. I have a new 90 degree connector which I plan
to
> attach to the center post with the female end pointing straight
up. This
> will make the loop easier and less stressful on the coax. Any
problem with
> this idea?
>
> Final assembly/mounting/testing/enjoying will be delayed a bit due
to
> family plans, rain, etc.
>
> Best wishes to all for 2002.
>
> 73, Herb K6HJM
> Herbert J. Meiselman, ScD
> Professor and Vice-Chair
> Dept. Physiology and Biophysics
> Keck School of Medicine
> 1333 San Pablo Street
> Los Angeles, CA 90033
> 323-442-1268
> 323-442-2283 (FAX)
> meiselma@u...

163. Re: It arrived!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-29 04:24:44 UTC
From: w4wb
Topic: 161 Message: 163

Hi Herb,

Congratulations! My answers to your questions are shown below.

73 de Barry - W4WB

--- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> The good news is that UPS delivered it (the HX-5Bi) on the 27th and it arrived in perfect condition. I have already sprayed all the fiberglass rods with Rust-Olem light grey auto primer...it dries very, very flat and will be better against the sky than flat black (I hope).
>
> Two brief questions (to Dr. Barry?):
>
> 1) Since I ordered the shorter SSB wires for 20 meters, I assume I will need to slightly adjust the positions of the attachment for the other 4 bands. At least the instruction sheet seems to suggest this will be necessary to take out any sag in the wires for the other 4 bands. To do this, I assume I move each clamp/holder just a small amount away from the central axis of the antenna...is this correct?
>
*****
Basically yes. Mike told me, and I found it true, that I could also rotate the clamps some as well to take out residual sag. Not only should the wires for a given band be coplanar to within maybe an inch, but the planes containing the several bands should be parallel. I found that I could stand back and eyeball it just fine, but then I have one of those characteristics that makes me go nuts if a picture is hung out of alignment! hi hi
*****

> 2) At the top of the center post, the instructions call for the coax to go up and over the top. I have a new 90 degree connector which I plan to attach to the center post with the female end pointing straight up. This will make the loop easier and less stressful on the coax. Any problem with this idea?
>
*****
It seems to me that the stress on the coax (turn radius) would be less doing it as instructed by Traffie than if you use a 90-deg connector. Be sure to use COAX SEAL or the like over the coax connection. Also, it is useful to have some cable wraps to dress the coax along the antenna mast and so on.
*****

> Final assembly/mounting/testing/enjoying will be delayed a bit due
to family plans, rain, etc.
>
> Best wishes to all for 2002.
>
> 73, Herb K6HJM

164. My HX-5Bi is now up and operational, Shin wins!!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-29 04:28:40 UTC
From: tomac14
Topic: 164 Message: 164

Hello:

Congratulations, Shin. You beat me. You had your antenna up yesterday.

Mine went up today, tonight actually, final work was in the dark. It's either on top of my tower or on my neighbor's flag pole. I'll have to wait for sunrise tomorrow to see exactly where it's installed.

I haven't had a chance to really check it out. But I just worked a station in the Canadian contest on 20 meters and his first words were "Ah, Big Signal." This is the first time anyone said that to me. I think this might be a good omen.

I'll give it a better checkout tomorrow.

Tom, N0YD

165. Re: [hex-beam] Re: 6m Hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-29 05:19:26 UTC
From: David Douglass
Topic: 151 Message: 165

Steve,

Stick with the QUAD. Apart from the physical size, the quad will be better in all other areas.

Regards

David, VK2DPD
----- Original Message -----
From: n5wdd
To: hex-beam@yahoogroups.com
Sent: Friday, December 28, 2001 4:43 PM
Subject: [hex-beam] Re: 6m Hex-beam

Sorry;/

Name here is Steve, I just recently got on the net and am learning
how to use these groups. I am interested in the 6m Hex-beam and wanted
to hear some comments about It. Pros/cons etc. I have a 6m 4ele. quad
about to go up on my tower how will it compare ??

Steve H.
N5WDD
--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@y..., "n5wdd" <n5wdd@y...> wrote:
> > Hello:\
> >
> > I just discovered this group. I would like to know any information
> > on the 6m version of the Hex-beam.
> >
> > Any one that has used it their likes/dislikes etc.
>
> Hi N5WDD,
>
> What's your name pse?
>
> I have a 6-m HB in the box. Got the HX-5B up, but haven't had time
> to get the other one up yet.
>
> See messages #6 and #73 for some more comments.
>
> 73 de Barry - W4WB

To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

166. Re: My HX-5Bi is now up and operational, Shin wins!!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-29 10:33:02 UTC
From: jr1nhd_shin
Topic: 164 Message: 166

Hi Tony,

I enjoyed a armchair QSO with Doug. See you tomorrow on 10 meters. Hexbeam really receives a lots of compliment from DX stations with only 200 watts output. You should have a big advantage now!!

73 de JR1NHD Shin

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> Hello:
>
> Congratulations, Shin. You beat me. You had your antenna up yesterday.
>

167. Any plans for 2 meter and 70cm?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-29 13:42:39 UTC
From: opusofid
Topic: 167 Message: 167

does any one know if there are any plans to add 2M and 70cm with the new FT-817 I think some fun could be had with those bands on a easy to assemble and light weight beam like this.

73 de WH6DM Alan

168. I have taken the plunge

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-29 13:48:43 UTC
From: wo8usa
Topic: 168 Message: 168

All,

After all my comparisons and conversations with many, I decided to buy the Hexbeam. I decided the size/performance ratio of the Hexbeam was the best on the market today. Further, I decided the higher cost was offset by the size/performance and the ease of construction/tuning.

Having said that, I sure hope Hexbeam does not let me down!

Chris WO8USA Dayton, Ohio

169. Hex Beam net

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-29 15:28:32 UTC
From: Philip Paulhus
Topic: 169 Message: 169

How do fellow Hex-Beamers feel about a net?
It could be a good way of seeing just how
well our hex beams are doing. Mine has
been up since April 2000. It sits atop a
40 foot tower and never complains. I would
rate its performance as outstanding. My QTH
in Massachusetts is in a valley surrounded by
hills, but it seems that I can make contact
with anyone I can hear.

[Non-text portions of this message have been removed]

170. Re: Hex Beam net

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-29 15:52:32 UTC
From: w4wb
Topic: 169 Message: 170

--- In hex-beam@y..., "Philip Paulhus" <ppaulhus@b...> wrote:
> How do fellow Hex-Beamers feel about a net?
> It could be a good way of seeing just how
> well our hex beams are doing. Mine has
> been up since April 2000. It sits atop a
> 40 foot tower and never complains. I would
> rate its performance as outstanding. My QTH
> in Massachusetts is in a valley surrounded by
> hills, but it seems that I can make contact
> with anyone I can hear.

Hi Phil,

Doug has suggested this already, but it seems that it may just have to grow into a net. I am going to try to QSO with Shin JR1NHD at 2230Z today (29 Dec) on 28.356 or 28.365 (depending on QRM). Others at 2300Z. You and everyone else are welcome to join in.

Glad to hear your HB report. It is interesting that all I hear are such good reports. Your comment is the same for me, if I can hear them, I can work them.

Hope to hear you on-the air. BTW, what is your call sign?

73 de Barry - W4WB
"Putting my HEX on the DX"

171. Re: [hex-beam] Hex Beam available

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-29 15:52:28 UTC
From: Marty Purselley
Topic: 171 Message: 171

I have a hexbeam and wanted to let folks know that it may be available for sale in February or March depending on my tower situation-I would prefer to sell it locally as in North Texas. It works great on top of my windsurf mast at 15 feet. I am in the Dallas Fort Worth metroplex and could possibly deliver in the area.

73s, de Marty AA5UN

----- Original Message -----
From: Philip Paulhus
To: Hex Beam
Sent: Saturday, December 29, 2001 9:28 AM
Subject: [hex-beam] Hex Beam net

How do fellow Hex-Beamers feel about a net?
It could be a good way of seeing just how
well our hex beams are doing. Mine has
been up since April 2000. It sits atop a
40 foot tower and never complains. I would
rate its performance as outstanding. My QTH
in Massachusetts is in a valley surrounded by
hills, but it seems that I can make contact
with anyone I can hear.

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

172. Re: [hex-beam] Re: It arrived!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-30 00:24:08 UTC
From: Floyd Sense
Topic: 161 Message: 172

Regarding the 90 degree connectors: I opted to use TWO 90 degree adapters. The first is installed so that the female points "sideways" or horizontal. The second is connected to the first, with the female end pointing a few degrees from "down". This positions the female end on the side of the PVC pipe, where the coax is supposed to be routed. The result is a straight piece of coax with only a slight bend near the connector. Appropriate weatherproofing is required on the connectors of course. According to at least one research reference on the Web, the loss in the connectors is probably less than in a similar length of coax cable. As you'll see in the table at that site, losses in SO-239 and PL-259 connectors is extremely insignificant at the operating frequencies of the HX-5B. Note W8JI's comments on connector loss near the end of the page.

http://www.k1ttt.net/technote/connloss.html

K8AC
Floyd Sense - Angier, NC
----- Original Message -----
From: wb6roh
To: hex-beam@yahoogroups.com
Sent: Friday, December 28, 2001 23:17 PM
Subject: [hex-beam] Re: It arrived!

..snip..

I would suggest that using a 90 degree adapter adds another mechanical connection and a little more loss. I had no problem coming straight out of the PL-259 and arching up to the top and coming down the side as instructed. I taped it heavily about every 6". Remember that the feedline does not "go over the top" and come down between the reflector halves. It comes down the "cold side" between a driven half and a reflector half. This is adjacent to the post that will meter a short between the SO-239's shell and the driven element's connection stud.

Good luck. Feel free to call me at 310-834-1695 if you need local support.

73 - Doug - WB6ROH

[Non-text portions of this message have been removed]

173. Alright.... that was the last straw !!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-30 01:06:20 UTC
From: Michael Melland
Topic: 173 Message: 173

Well guys I've had it..... I was mulling over the purchase of a Hex-beam and crying over the fact that the price was going up $300 on Tuesday. I had planned on getting one this summer.....

Must be the season.... it's really been bugging me. I have a rotor and control box, coax and a nice little used Mosley TA-33jr in my shed.... where it's been for about 4 years now. I just didn't know if it's what I "wanted" for a directional antenna so it sat. Then this Hex-beam "thing" happened. Heck.... I even actually coughed up coin for a call and chat with Mike Traffie earlier today. I've been researching, studying and listening to others rave about the antenna and wanted to speak to the "person" responsible. What a great guy.... nice chat ...he left me really "thinking"....

Then I went into my shack to install some new contesting logging software I got from Santa. I turned on my hot shot Racal 6790/GM receiver and listened to local AM stations for a while and thought I'd check out the bands..... must have been Karma.....

What did I hear on 10 meters !!!! Mike..... Shin in Japan.... etal.... all talking on Hex-beams !! That was the straw that broke the camels back !!

I just phoned Mike and ordered a 5 band Hex-beam !! Sure glad he was answering his phone at after 7 PM his time.... and I beat the price increase !!

Wooo ! Hooo! - finally a good directional antenna I (not to mention the xyl) I can live with and be happy with !!!

(I'm not excited at all..... of course <grin>)

Regards,

Mike, W9WIS

--
Michael Melland, W9WIS
Winneconne, Wisconsin USA EN54pc
qrp-l #1656 - qrparci # 9875 - iparc #252
ars #1075 - http://www.qsl.net/w9wis

174. Re: Alright.... that was the last straw !!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-30 01:38:41 UTC
From: w4wb
Topic: 173 Message: 174

Congratulations Mike! Hope you will join us on 28.356 at 2230Z on Saturdays.

73 de Barry - W4WB

175. Re: Alright.... that was the last straw !!

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-30 04:04:49 UTC
From: ku7q
Topic: 173 Message: 175

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Congratulations Mike! Hope you will join us on 28.356 at 2230Z on
> Saturdays.
>
> 73 de Barry - W4WB

I received my HX-5Bi yesterday and spent most of today getting it onto it's temporary perch on my deck, at 15-ft. Waiting for the snow to melt off the roof before I put it where it really belongs.

I missed the sked by about 30-minutes, but will try to make it next week.

I've spent much of the evening being totally amazed at what's on my little FT-817... I've never even heard most of this on my old ATV-5!! I managed QSO's with Korea (569) and Japan (439) on 5-watts, more to come I'm sure.

I was very impressed with the Hex-Beam's quality and ease of assembly. It's almost impossible to put it together wrong. I can't add a lot go what's already been posted about this antenna, other than to say that it's all true. This is a great piece of gear.

73's,
Lynn, KU7Q

176. The HEX-BEAM NET?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-30 04:12:08 UTC
From: w4wb
Topic: 176 Message: 176

Well maybe the HEX-BEAM NET is sort of starting up. Today, at least Doug WB6ROH, Shin JR1NHD, Barry W4WB, Phil K1ICO, Bill W4RK, and Mike N1HXA were on 28.356 MHz from about 2230 to 2315Z having a fine QSO. All were using a HEX-BEAM with the exception of W4RK who was using a vertical.

We are planning to try again next Saturday at 2230Z on 28.356 MHz. Please join in whether or not you have a HEX-BEAM.

73 de Barry - W4WB

177. Re: [hex-beam] The HEX-BEAM NET?

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-30 04:17:19 UTC
From: Brad Sumner
Topic: 176 Message: 177

I ordered my hex beam about a week ago and should have it in about a couple of weeks. I'll listen for y'all next Saturday.

73
Brad K0TRL

178. 3XY8A

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-31 01:52:41 UTC
From: w4wb
Topic: 178 Message: 178

In the FWIW department, I dropped by the 247 DX NET today and heard 3XY8A on. I listened for a while and noted that he was giving reports of 41 to 55 with most in the 51 to 53 range. I got on the list and gave him a 53 report. He gave me a 56 report with complements for the signal! OK, I was using the Quadra, but the HEX-BEAM was doing it job too. Sure is fun!

73 de Barry - W4WB

179. HX-5Bi #189 is alive and well at N0YD

Yahoo group: hex-beam (2001 — 2006)
Date: 2001-12-31 19:02:43 UTC
From: wb6roh
Topic: 179 Message: 179

Just finished a QSO with N0YD in Missouri. Was able to work Tom on all 5 bands with S8 to 20/S9 signals +/- QSB. Looks like we have another Hex-meister in our midst.

73 - Doug - WB6ROH

180. Yankee Doodle(N0YD)becomes a new Hex-meister

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 01:58:29 UTC
From: tomac14
Topic: 180 Message: 180

Hello:

As I reported earlier, I got my hexbeam up on 29 Dec. The only suggestion I have for the assembly instructions is that Step #1 should read as follows:

Step #1: Find a friend to help with the assembly.

It's not difficult, but there are times when 4 hands would help. I'm sure some people can do it alone, but an extra set of hands really helps especially when you are inserting the wire ends into the insulators. Otherwise, it is very easy to assemble. Absolutely no tuning required. In fact, there is nothing to tune even if you wanted to tune something. And the SWR was really great on all bands: 1.2 to 1.3 across 20 and 17 meters, 1.4 to 1.5 across all the other bands.

I've received excellent reports since I started operation. Yesterday I worked South Africa, Lithuania, Algeria, Cape Verde Island, Senegal, two in Japan, all with excellent reports. While I was working a station in Luxumbourg, Alan (K3ACB) broke in to say that he also had a hexbeam.

Today I heard Claude (KD6CYS) on so I gave him a call. Claude was the first person to recommend the hexbeam to me. He gave me a +30db report on 1000 watts and +20db on 100 watts. Another ham a couple of miles away broke in to say that I was +40db on 1000 watts and +30 db on 100 watt. Then Doug (WB6ROH) broke in to say I was +20 db in Carson City CA.

So in just this short time, I've worked 3 other hexbeam owners. I'm working on on my HXCC Award, which requires that a hexbeam owner work 100 other hexbeam owners!!! We could also have a WAH Award, which requires a hexbeam owner to work all other hexbeam owners.

Who will be the first one to get the HXCC Award?

73 and Good Luck on your HXCC Award,

Tom, N0YD "Yankee Doodle"

181. Re: [hex-beam] Yankee Doodle(N0YD)becomes a new Hex-meister

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 02:31:34 UTC
From: Makoto Tanaka
Topic: 180 Message: 181

Congrats, Tom. I look forward to QSO with you next weekend.

I really agree that we need at least 4 hands to fix the arms which is the most time consuming job. Once I fixed the six arms on to the center plate, it took us only 30 minutes to finish the job. I need to work another 95 hex owners to get HXCC hi.

Wishing you and yours a happy new year and happy Hexing.

73, JR1NHD Shin
----- Original Message -----
From: tomac14
To: hex-beam@yahoogroups.com
Sent: Tuesday, January 01, 2002 10:58 AM
Subject: [hex-beam] Yankee Doodle(N0YD)becomes a new Hex-meister

Hello:

As I reported earlier, I got my hexbeam up on 29 Dec. The only suggestion I have for the assembly instructions is that Step #1 should read as follows:

Step #1: Find a friend to help with the assembly.

It's not difficult, but there are times when 4 hands would help. I'm sure some people can do it alone, but an extra set of hands really helps especially when you are inserting the wire ends into the insulators. Otherwise, it is very easy to assemble. Absolutely no tuning required. In fact, there is nothing to tune even if you wanted to tune something. And the SWR was really great on all bands: 1.2 to 1.3 across 20 and 17 meters, 1.4 to 1.5 across all the other bands.

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Today I heard Claude (KD6CYS) on so I gave him a call. Claude was the first person to recommend the hexbeam to me. He gave me a +30db report on 1000 watts and +20db on 100 watts. Another ham a couple of miles away broke in to say that I was +40db on 1000 watts and +30 db on 100 watt. Then Doug (WB6ROH) broke in to say I was +20 db in Carson City CA.

So in just this short time, I've worked 3 other hexbeam owners. I'm working on on my HXCC Award, which requires that a hexbeam owner work

100 other hexbeam owners!!! We could also have a WAH Award, which requires a hexbeam owner to work all other hexbeam owners.

Who will be the first one to get the HXCC Award?

73 and Good Luck on your HXCC Award,

Tom, N0YD "Yankee Doodle"

[Non-text portions of this message have been removed]

182. Re: Yankee Doodle(N0YD)becomes a new Hex-meister

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 03:02:08 UTC
From: w4wb
Topic: 180 Message: 182

Congratulations Tom!

I also agree that one should really have a friend help. Assembly in 90 minutes is reasonable the first time and less than one hour thereafter.

Hope to hear you on next Saturday or maybe even before. Alan K2ACB heard me on 15-m this afternoon and gave a call using his Hex-Beam. We had a nice QSO. Alan also has a GAP Titan vertical that he switched between. With him running 100 W, the vertical was a solid S-7-1/2 and the Hex-Beam was flickering between S-9 & S-9+5 on my FT-1000MP. Since I also have a Titan vertical, it was most interesting to hear a direct comparison.

My HXCC count is 9, but how do we "keep score?" How about homebrew Hex-Beams counting or not? Maybe HXCC could a topic for the next HEX-NET.

73,
Barry - W4WB

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> Hello:
>
> As I reported earlier, I got my hexbeam up on 29 Dec. The only
> suggestion I have for the assembly instructions is that Step #1
> should read as follows:
>
> Step #1: Find a friend to help with the assembly.
>
> It's not difficult, but there are times when 4 hands would help. I'm
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> helps especially when you are inserting the wire ends into the
> insulators. Otherwise, it is very easy to assemble. Absolutely no
> tuning required. In fact, there is nothing to tune even if you
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> 1.3 across 20 and 17 meters, 1.4 to 1.5 across all the other bands.
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> Senegal, two in Japan, all with excellent reports. While I was
> working a station in Luxumbourg, Alan (K3ACB) broke in to say that
he
> also had a hexbeam.
>

> Today I heard Claude (KD6CYS) on so I gave him a call. Claude was
the
> first person to recommend the hexbeam to me. He gave me a +30db
> report on 1000 watts and +20db on 100 watts. Another ham a couple of
> miles away broke in to say that I was +40db on 1000 watts and +30 db
> on 100 watt. Then Doug (WB6ROH) broke in to say I was +20 db in
> Carson City CA.
>
> So in just this short time, I've worked 3 other hexbeam owners. I'm
> working on on my HXCC Award, which requires that a hexbeam owner
work
> 100 other hexbeam owners!!! We could also have a WAH Award, which
> requires a hexbeam owner to work all other hexbeam owners.
>
> Who will be the first one to get the HXCC Award?
>
> 73 and Good Luck on your HXCC Award,
>
> Tom, N0YD "Yankee Doodle"

183. Hex-Beam #190

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 18:13:22 UTC
From: ku7q
Topic: 183 Message: 183

Hi all,

I've posted a photo of Hex-Beam #190 in it's temporary location... not ideal, but it works! I'm waiting for the snow to melt off the roof so I can get it onto a 30' mast on the left side of the house.

So far it's done a good job with my little FT-817. Hope to talk to you Saturday on the Hex-Net... BTW, I have 1 QSO towards HXCC (thanks Barry)!

Lynn, KU7Q

184. Looks like my HXCC idea is starting to catch on

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 19:19:53 UTC
From: tomac14
Topic: 180 Message: 184

Hi Barry:

Looks like my HXCC idea is starting to catch on!!!

So far, you are on the top of the leader board with 9, Shin has 5, I
have 3 and Lynn has 1.

I hope to be on next Sat for the sked with Shin.

Yes, maybe HXCC could be a topic for the next HEX-NET.

Thanks for all the help that you and other "Hexers" have provided.

Tom, N0YD "Yankee Doodle"

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Congratulations Tom!
>
> I also agree that one should really have a friend help. Assembly
in
> 90 minutes is reasonable the first time and less than one hour
> thereafter.
>
> Hope to hear you on next Saturday or maybe even before. Alan K2ACB
> heard me on 15-m this afternoon and gave a call using his Hex-Beam.

> We had a nice QSO. Alan also has a GAP Titan vertical that he
> switched between. With him running 100 W, the vertical was a solid
> S-7-1/2 and the Hex-Beam was flickering between S-9 & S-9+5 on my
> FT-1000MP. Since I also have a Titan vertical, it was most
> interesting to hear a direct comparison.
>
> My HXCC count is 9, but how do we "keep score?" How about homebrew
> Hex-Beams counting or not? Maybe HXCC could a topic for the next
> HEX-NET.
>
> 73,
> Barry - W4WB
>
>
> --- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> > Hello:
> >
> > As I reported earlier, I got my hexbeam up on 29 Dec. The only
> > suggestion I have for the assembly instructions is that Step #1
> > should read as follows:
> >

> > Step #1: Find a friend to help with the assembly.
> >
> > It's not difficult, but there are times when 4 hands would help.
I'm
> > sure some people can do it alone, but an extra set of hands
really
> > helps especially when you are inserting the wire ends into the
> > insulators. Otherwise, it is very easy to assemble. Absolutely no
> > tuning required. In fact, there is nothing to tune even if you
> wanted
> > to tune something. And the SWR was really great on all bands: 1.2
to
> > 1.3 across 20 and 17 meters, 1.4 to 1.5 across all the other
bands.
> >
> > I've received excellent reports since I started operation.
Yesterday
> > I worked South Africa, Lithuania, Algeria, Cape Verde Island,
> > Senegal, two in Japan, all with excellent reports. While I was
> > working a station in Luxumbourg, Alan (K3ACB) broke in to say
that
> he
> > also had a hexbeam.
> >
> > Today I heard Claude (KD6CYS) on so I gave him a call. Claude was
> the
> > first person to recommend the hexbeam to me. He gave me a +30db
> > report on 1000 watts and +20db on 100 watts. Another ham a couple
of
> > miles away broke in to say that I was +40db on 1000 watts and +30
db
> > on 100 watt. Then Doug (WB6ROH) broke in to say I was +20 db in
> > Carson City CA.
> >
> > So in just this short time, I've worked 3 other hexbeam owners.
I'm
> > working on on my HXCC Award, which requires that a hexbeam owner
> work
> > 100 other hexbeam owners!!! We could also have a WAH Award, which
> > requires a hexbeam owner to work all other hexbeam owners.
> >
> > Who will be the first one to get the HXCC Award?
> >
> > 73 and Good Luck on your HXCC Award,
> >
> > Tom, N0YD "Yankee Doodle"

185. Not fair at all!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 21:22:25 UTC
From: Meiselman
Topic: 185 Message: 185

OK...so I now have received my 5-band Hex-Beam, have painted the fiberglass rods with a very flat primer, and have attached all six "inner" rod sections to the base plate. Also have installed the 4.5 foot G-M tower. BUT...rain in Southern California and I'm unwilling to go up on a slippery roof!

SO...you guys go ahead and have your fun, QSOs, HXCC, QSLs, etc. I'm just going to sit here and cry.

Best wishes for 2002!

Herb

PS: Please excuse all the info associated with my signature below...my email account is set up for my work location.
Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

186. Re: Not fair at all!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 21:27:15 UTC
From: wb6roh
Topic: 185 Message: 186

Come on Herb! It is 01/01/02, the Rose Parade is over, the sun is out in Southern California and I was even out yesterday running lighthouses. What is the real reason you haven't set that puppy on a ladder and Hexed the world?

Doug - WB6ROH

--- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> OK...so I now have received my 5-band Hex-Beam, have painted the fiberglass
> rods with a very flat primer, and have attached all six "inner" rod
> sections to the base plate. Also have installed the 4.5 foot G-M
> tower. BUT...rain in Southern California and I'm unwilling to go up on a
> slippery roof!
>
> SO...you guys go ahead and have your fun, QSOs, HXCC, QSLs, etc. I'm just
> going to sit here and cry.
>
> Best wishes for 2002!
>
> Herb
>
> PS: Please excuse all the info associated with my signature below...my
> email account is set up for my work location.
> Herbert J. Meiselman, ScD
> Professor and Vice-Chair
> Dept. Physiology and Biophysics
> Keck School of Medicine
> 1333 San Pablo Street
> Los Angeles, CA 90033
> 323-442-1268
> 323-442-2283 (FAX)
> meiselma@u...

187. Re: Not fair at all!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 21:36:28 UTC
From: w4wb
Topic: 185 Message: 187

--- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> OK...so I now have received my 5-band Hex-Beam, have painted the fiberglass rods with a very flat primer, and have attached all six "inner" rod sections to the base plate. Also have installed the 4.5 foot G-M tower. BUT...rain in Southern California and I'm unwilling to go up on a slippery roof!
>
> SO...you guys go ahead and have your fun, QSOs, HXCC, QSLs, etc. I'm just going to sit here and cry.
>
> Best wishes for 2002!
>
> Herb

Hi Herb,

Glad that you got your HB in and nearing installation. Guess I could tell you that I just worked A31MO on 20 m and got him on the first call in the pileup. But then I would also have to say that he said "strong signal and a 59." Reports he was giving for others were not so good. :-) Hope your experiences are as much fun with your Hex-Beam and that you can join in on Saturday!

Happy New Year,
Barry - W4WB

188. Re: [hex-beam] Re: Not fair at all!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 21:46:04 UTC
From: Eric Carling
Topic: 185 Message: 188

I hope that was just a typo - it was A41MO that you worked.

HNY
Eric G0CGL.

Hi Herb,

Glad that you got your HB in and nearing installation. Guess I could tell you that I just worked A31MO on 20 m and got him on the first call in the pileup. But then I would also have to say that he said "strong signal and a 59." Reports he was giving for others were not so good. :-) Hope your experiences are as much fun with your Hex-Beam and that you can join in on Saturday!

Happy New Year,
Barry - W4WB

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[Non-text portions of this message have been removed]

189. Re: Not fair at all!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 21:48:45 UTC
From: wb6roh
Topic: 185 Message: 189

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> > OK...so I now have received my 5-band Hex-Beam, have painted the
> fiberglass rods with a very flat primer, and have attached all six
> "inner" rod sections to the base plate. Also have installed the
4.5
> foot G-M tower. BUT...rain in Southern California and I'm
unwilling
> to go up on a slippery roof!
> >
> > SO...you guys go ahead and have your fun, QSOs, HXCC, QSLs, etc.
> I'm just going to sit here and cry.
> >
> > Best wishes for 2002!
> >
> > Herb
>
>
> Hi Herb,
>
> Glad that you got your HB in and nearing installation. Guess I
could
> tell you that I just worked A31MO on 20 m and got him on the first
> call in the pileup. But then I would also have to say that he said
> "strong signal and a 59." Reports he was giving for others were
not
> so good. :-) Hope your experiences are as much fun with your
> Hex-Beam and that you can join in on Saturday!
>
> Happy New Year,
> Barry - W4WB

OK, Barry. I guess we better stop picking on "poor 'ole Herb." I
guess
if he isn't on by next Saturday I'll have to round up my club's
antenna crew and show up on his doorstep. How about swapping some "4"
DX for "6" DX?

Doug - WB6ROH

190. Re: Not fair at all!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 22:08:25 UTC
From: ku7q
Topic: 185 Message: 190

Herb wrote...
> BUT...rain in Southern California and I'm
> unwilling
> to go up on a slippery roof!
>
> SO...you guys go ahead and have your fun, QSOs, HXCC, QSLs, etc.
> I'm just going to sit here and cry.

Come on Herb, where's the ol' ham spirit.. I'll trade rain for snow almost any day! My HX-5B is sitting contently on a 10' temporary pole attached to my deck (see the photo I posted in the photo area). Not ideal, but it works. One plus is that the XYL will be VERY happy to see it moved to it's permanent location when the snow melts (more than a little reverse psychology going on here :)

Good luck, hopefully when it stops raining in CA it will stop snowing in UT.

73's
Lynn

191. Re: [hex-beam] Re: Not fair at all!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 22:08:27 UTC
From: George Franklin
Topic: 185 Message: 191

Hi Guys,

Is it OK if I call you HexBeam users "Hexheads?"

I'm just jealous cuz I don't have a HexBeam.

Sorry.

73 de George/W0AV
Hamming since '35

192. A41MO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 22:20:15 UTC
From: w4wb
Topic: 185 Message: 192

--- In hex-beam@y..., "Eric Carling" <eric.g0cgl@z...> wrote:
> I hope that was just a typo - it was A41MO that you worked.
>
> HNY
> Eric G0CGL.
>

Right you are on both counts Eric! It was a typo and it was A41MO I worked. Also just worked D2GG (no typo this time, hi hi).

HNY,
Barry - W4WB

193. You know how to hurt...

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-01 23:04:44 UTC
From: Meiselman
Topic: 193 Message: 193

Gentlemen (?):

You guys really know how to hurt a guy...especially when he is down and out (or at least his antenna is down and not connected)!

As the proud owner of #188, I will try to get it onto the roof this weekend. However, if WB6ROH wants to help, I can offer an adult beverage or two as a reward.

Thanks again for your kind understanding and sympathy...with friends like you, who needs....

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

194. Fwd: hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-02 01:25:21 UTC
From: Meiselman
Topic: 194 Message: 194

Hi...anybody able to help him?

Herb

>X-eGroups-Return: fmorenz@...
>Date: Tue, 01 Jan 2002 23:35:33 -0000
>From: "ik6zer" <fmorenz@...>
>To: meiselma@...
>Subject: hex beam
>User-Agent: eGroups-EW/0.82
>X-Mailer: Yahoo Groups Message Poster
>X-Originating-IP: 212.216.137.19
>
>Hi derar Herb,
>i'm IK6ZER, my name is Fabio.
>My dream is got an HX-5Bi but too expensive for me, infact it price
>is $ 749 + $ 250 shipping + $ 300 duties free...IT'S TOO MUCH!!!
>So, i'll homebrw it.
>Can you help me?
>Could you tell me the exact length of 5 DRIVEN and 5 REFLECTOR?
>I'm very happy if i make it.
>many thanks and happy new year...
>73' Fabio fmorenz@...
>PS: sorry for my bad english...hi...
>

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

195. Re: [hex-beam] Fwd: hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-02 01:27:11 UTC
From: Brad Sumner
Topic: 194 Message: 195

I told him I would send him an e-mail after I got mine. Mike T told me yesterday that there were three ahead of mine and they were waiting for more spreaders--due in about a week. Thinks I'll have mine about mid January.

I listened to you guys last Saturday and will try to join you next week.

73,

Brad K0TRL

196. A41LZ

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-02 04:20:49 UTC
From: tomac14
Topic: 185 Message: 196

Hi Barry:

Congratulations on working A41MO.

I just worked Oman also. I worked A41LZ on 20 meters.

This antenna really works!!!!

Tom, N0YD "Yankee Doodle"

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@y..., "Eric Carling" <eric.g0cgl@z...> wrote:
> > I hope that was just a typo - it was A41MO that you worked.
> >
> > HNY
> > Eric G0CGL.
> >
>
> Right you are on both counts Eric! It was a typo and it was A41MO
I
> worked. Also just worked D2GG (no typo this time, hi hi).
>
> HNY,
> Barry - W4WB

197. Homebrew Antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-02 10:57:43 UTC
From: David Douglass
Topic: 197 Message: 197

Hi Guys,

Well I'm just about there! I put the elements on today and only need to figure out the phasing/feed system tomorrow and give it all a last coat of paint and get it up on the roof for tuning. (if anyone knows what's inside the centre post, please let me know)

I would suggest that anyone else planning to put one together should spend a little time planning things out as I've come a cropper a few times so far. The strength of spreaders and thickness/type of wire are pretty important to get the whole thing looking OK. I tend to think the wire I've used is a little thin, but time will tell and this is only a prototype. Once fully assembled I'll post some photo's/info for anyone interested, but will say that this is not a project for the faint hearted.

Regards

David, VK2DPD
vk2dpd@...
vk2dpd@...

198. Rotor on the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-02 13:22:39 UTC
From: John Caulfield
Topic: 198 Message: 198

Although the smaller rotors will easily turn the hex beam, you might want a rotor that has a brake on it. The wind will move the beam back and forth and eventually take a toll on the gears. Something I did not think about in construction phase. I used the Yasue G450.

You can take a look at the installation on QRZ.com.

Happy New Year!
K?FUZ

199. Re: Rotor on the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-03 01:17:20 UTC
From: floyd-sense
Topic: 198 Message: 199

--- In hex-beam@y..., "John Caulfield" <johnc@c...> wrote:
> Although the smaller rotors will easily turn the hex beam, you might wan=
t a
> rotor that has a brake on it. The wind will move the beam back and forth=

> and eventually take a toll on the gears. Something I did not think abou=
t
> in construction phase. I used the Yasue G450.
>
> You can take a look at the installation on QRZ.com.
>
> Happy New Year!
> KØFUZ

I don't think that this is a problem as it is with yagi's and quads. Since=
the Hex is basically symmetrical, winds gusting from different directions s=
hould exert little rotating torque on the antenna. This is clearly not the =
case with yagis and quads as they would present different wind loads dependi=
ng upon which way the wind was blowing. At any rate, some of the Channel Ma=
ster rotors have beefed up gears to handle CB and smaller amateur beams. I =
just received a new flyer from AES today and see that they have a new Channe=
l Master (think it was the 9521?) which appears to be similar to the 9515 I'=
m using, but at a lower price and it has an infrared remote control as well.=

200. Re: Rotor on the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-03 04:51:06 UTC
From: ku7q
Topic: 198 Message: 200

> just received a new flyer from AES today and see that they have a new Channe=
> l Master (think it was the 9521?) which appears to be similar to the 9515 I'=
> m using, but at a lower price and it has an infrared remote control as well.=

Yes, this is the rotor I bought for my beam... it's a very nice unit, not as rugged as the higher priced ham units, but I only paid $65 for it from http://www.consumer-direct.com... it's kind of like buying a Hoover instead of a Kirby vaccum, you can buy a lot of these for the price of one of those.

The control box is very small, ~6"w x 1"h x 3"d and displays the azimuth directly. The unit can be set to recalibrate itself every 10 operations. To do this, it overruns itself to the 0 degrees position then returns to the original setting. You can also force a recal manually. It also runs on a wall-wart (18vac @ 1 amp) and uses 3-wire rotor cable from Radio Shack.

To use the IR control, you just press the azimuth you want and the beam spins. You can also pre-program 69 individual settings. It's nice to put the control unit up on the shelf and not have to reach for it everytime you want to move the beam. In addition, the manual says most universal remotes will support the unit.

All in all, I'd give the unit 5 out of 5.

Lynn, KU7Q

201. Homebrew Advice part 2

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-03 09:11:37 UTC
From: David Douglass
Topic: 201 Message: 201

Hi All,

Have the beam painted and up on the roof but only at about 15foot so far.

The part I mentioned yesterday about selection the element wire turned out to be true and I snapped an element when hoisting it on the roof.

I still have a fair bit on tuning to do, and think I would feed each element individually if I was to make another one. Another possibility would be the use of linear traps for the suppression of currents induced from the neighbouring dipoles elements in the beam

I don't think I'll be able to tune all 5 bands with the current feed method, but am hoping for 3 or 4. At the moment I'm listening to the UK on 20metres and have about 3 S units difference from the front to back of the beam, so that is promising, but too early to tell. I've also just had a 569 report from Italy with 50watts, so it is radiating, although I'm sure that everyone knows how inaccurate this type of comparison is!!!

Anyway, I'll keep everyone posted of the progress.

David
vk2dpd@...
vk2dpd@...

202. Re: Homebrew Advice part 2

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-03 15:35:02 UTC
From: w4wb
Topic: 201 Message: 202

Hi David,

Seems you are making good progress. Think you can join in the HEX-NET on 05 January, Saturday (here) at 2230Z on 28.356 MHz?

If possible, please post a few photos in the "Photos Area."

73 de Barry - W4WB

203. Re: [hex-beam] Re: Rotor on the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-03 18:36:29 UTC
From: Floyd Sense
Topic: 198 Message: 203

Interesting - it sounds as if the control unit and remote would work with my rotor since it also uses the three wire system. Does it say anything in the documentation about working with the other Channel Master rotors?

K8AC
Floyd Sense - Angier, NC
----- Original Message -----
From: ku7q
To: hex-beam@yahoogroups.com
Sent: Wednesday, January 02, 2002 23:51 PM
Subject: [hex-beam] Re: Rotor on the Hex

> just received a new flyer from AES today and see that they have a new Channe=
> l Master (think it was the 9521?) which appears to be similar to the 9515 I'=
> m using, but at a lower price and it has an infrared remote control as well.=

Yes, this is the rotor I bought for my beam... it's a very nice unit, not as rugged as the higher priced ham units, but I only paid $65 for it from http://www.consumer-direct.com... it's kind of like buying a Hoover instead of a Kirby vaccum, you can buy a lot of these for the price of one of those.

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To use the IR control, you just press the azimuth you want and the beam spins. You can also pre-program 69 individual settings. It's nice to put the control unit up on the shelf and not have to reach for it everytime you want to move the beam. In addition, the manual says most universal remotes will support the unit.

All in all, I'd give the unit 5 out of 5.

Lynn, KU7Q

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[Non-text portions of this message have been removed]

204. Extra clamps on the arms?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-04 00:13:46 UTC
From: Herbert Meiselman
Topic: 204 Message: 204

Hello again!

Yes, I will put # 188 up this week end, so don't worry.

BUT, I do have a small question: looking at the pictures posted by K8AC, I note an "extra" hose clamp near the beginning of the outer arm section. That is, it clamps over the outer section of the overlap between the inner and outer arm. But no mention of these extra 6 clamps are provided in the instructions, nor did any come with the antenna.

Is this a recent change or a prior design which is no longer valid?

Many thanks,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

205. Re: Rotor on the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-04 01:08:26 UTC
From: ku7q
Topic: 198 Message: 205

--- In hex-beam@y..., "Floyd Sense" <k8ac@a...> wrote:
> Interesting - it sounds as if the control unit and remote would
work with my rotor since it also uses the three wire system. Does it
say anything in the documentation about working with the other
Channel Master rotors?
>
> K8AC
> Floyd Sense - Angier, NC

Doesn't say anything about it in the manual, but I'm sure it would.
It is MUCH better than the old ratcheting clangers!

73's
Lynn, KU7Q

206. Re: Extra clamps on the arms?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-04 01:21:57 UTC
From: tomac14
Topic: 204 Message: 206

Hi Herb;

Those clamps you see in the photos don't exist on the new version, HX-5bi. I talked to Mike Traffie and he said he had made some improvements to the way the arms are made and this eliminated the need for those clamps. I've got Hx-5Bi S/N 189 and they aren't on mine either.

Tom, N0YD "Yankee Doodle"

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> Hello again!
>
> Yes, I will put # 188 up this week end, so don't worry.
>
> BUT, I do have a small question: looking at the pictures posted by K8AC, I
> note an "extra" hose clamp near the beginning of the outer arm
> section. That is, it clamps over the outer section of the overlap between
> the inner and outer arm. But no mention of these extra 6 clamps are
> provided in the instructions, nor did any come with the antenna.
>
> Is this a recent change or a prior design which is no longer valid?
>
> Many thanks,
>
> Herb K6HJM
>
>
>
>
>
> Herbert J. Meiselman, ScD
> Professor and Vice-Chair
> Dept. Physiology and Biophysics
> University of Southern California
> Keck School of Medicine
> 1333 San Pablo Street, MMR 626
> Los Angeles, CA 90033
> (323) 442-1268
> (323) 442-2283 [FAX]
> meiselma@h...

207. Homebrew Hex part 3

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-04 08:00:20 UTC
From: David Douglass
Topic: 207 Message: 207

Hi All,

Well, had another go at tuning and have hoisted the antenna up to about 35feet.

I have 3 bands tuned in well, but have managed to get 17M resonance about 150KHz above the top of the band, and can't get a better SWR on 15M than about 3:1 (Not that SWR means a great deal from a performance point of view). Raising the antenna seems to improve things a lot, which is worth bearing in mind, when your making one.

From my initial tests (on 20Mm only so far due to propagation), I'm a little disappointed with the F/B ratio. I haven't done a great deal of experimentation as yet, but will hang my hat on the line and say that it's not in the same league as the old Moxon Rectangle. This is maybe a little unfair as the Moxon is renowned for great F/B ratio, and I did used to feed all elements separately on that beam, but there my initial thoughts anyway.

On the plus side, the visual impact of the Hex is much better, and it's so much easier to turn than the old Moxon. I can vouch for this, as my mast drops through the shack roof and is turned by hand (why pay silly money for a rotator, my 'Armstrong Method' gets the job done quicker and gives me a work out at the same time). As well as this the wind loading looks good also.

I wonder if anyone has some "real" figures on F/B ratio on the Traffie Hex. I'm sure everyone is aware that the F\B ratio bandwidth on the Hex is very small, I just wonder if anyone has bothered measuring it???

Anyway guy's, I'll have a listen out over the weekend and see how it performs. I may even have a wonder up to the un-civilised part of 10M to try and catch your net!!

Regards

David, VK2DPD
vk2dpd@...
vk2dpd@...

208. Re: Homebrew Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-04 14:45:14 UTC
From: David Douglass
Topic: 208 Message: 208

Hi Barry,

Thanks for the e-mail and encouragement!!

Unfortunately conditions are really poor this evening so not much chance to give it a try out, but from what I can see I am getting some F/B ratio on all bands, which is good considering the small amount of time I have been tuning. Conditions to this part of the World have been pretty poor for the last week or so, so have not been able to give it such a good try out, but it seems to be OK for a first effort.

Unfortunately, I will be out tomorrow so will miss the net, but a good idea for giving the antennas a try out.

I wonder if you have had a look at the following site..

http://www.cebik.com/4.html

It gives a good theoretical comparison between the Hex and some similar antennas. Whilst I appreciate these models are never totally accurate, It does explain what I mean by the Hex having a "narrow bandwidth" with respect to F/B ratio.

I suppose ultimately, it all comes down to what people are after. generally the first thing I look for in a beam is F/B ratio, as I usually run pretty low power (CW and a little RTTY), and tend to work weaker more marginal stations. Obviously good F/B ratio is more critical for eliminating QRM. I think a lot of people get hung up on VSWR measurements, and at the end of the day a good SWR reading tells you very little (that's my story and I'm sticking to it!!). To a lesser extent. I think antenna gain is also a much over used phrase, and whilst everyone would like to think they have a "super-gain" array in the Hex-beam, I would challenge anyone to explain to me what one of these is - as I don't have a clue.

Anyway, enough bitching!! I do think that the Hex is a definite contender for "THE BEST COMMERCIAL SMALL BEAM ON THE MARKET", when you consider size, windloading, and design into the equation. I think I will take some convincing that it is better than the C3SS, especially when you factor price in!!!! As to whether the hex will perform as well as properly adjusted 3 element Yagi (as has been suggested) - "well this is time of year we are expected to believe in Santa Claus".

I must admit, when I look at antenna prices, I think about how much it would cost me to make the same thing - and with the Hex, I would say about $150-200US. I do however, now, appreciate some of the initial work that must of went into the design of the antenna, and if this was is to be factored into the price along with construction costs - well maybe $1000 is cheap??

Anyway, thanks again for the mail Barry and CUL

David, VK2DPD

----- Original Message -----
From: "w4wb" <w4wb@...>
To: <vk2dpd@...>
Sent: Friday, January 04, 2002 10:50 AM
Subject: Hex-Beam

> Hi David,
>
> Good show and FB on the "hamercise" rotor approach. How are you
> sealing it for weather as it passes through the roof?
>
> Regarding F/B measurements. The S-meter on my FT-1000MP is well
> calibrated first of all. In the low part of the phone bands (14.2,
> 21.25, 28.45, etc.), I have measured from the low to upper 20's. In
> the past week or so, any such test was not so meaningful since it
> seems both the long and short paths were open to some extent.
> Yesterday on 10 m, the difference in paths was maybe just in the 10
> dB range while the paths to VK were open. About 3-4 weeks ago, I
> worked an EA8 using a C3SS with us both running 10/9 solid & stable
> for about 30 minutes. The (10 m as I recall) long path was dead it
> seemed. He also was using a FT-1000MP. Both of us showed 4 to 4-1/2
> S-unit F/B. He intends to replace his C3SS with a HB.
>
> What gauge wire did you use finally? The HB uses #14 stranded.
> FWIW, Traffie says the tuning of the HB is a bit tricky to find
> the "sweet spot." It makes the difference between mediocre and
> excellent performance.
>
> Hope we do hear you on Saturday David.
>
> 73 de Barry - W4WB
>

209. What tower are you using ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-05 18:40:35 UTC
From: Michael Melland
Topic: 209 Message: 209

Now that my Hex-Beam is on order I need to plan what type tower to put it on. What are you guys using ? I know squat about towers. I "think" crank up is the way for me to go.... over 6 ft off the ground I freeze up <grin>... so if I need to perform any maint. on it I'd like it to be low to the roofline. Planning to mount next to the house and bracket the tower for support onto the house ??? I'd even consider a roof tower although I suspect objections from the xyl on that.... a 150 year old house just might not look right with a tower on the roof <grin>.

Any thoughts ? Advice ? How are those of you using the Hex push up tower mounting/rotating ? I have a Hy-Gain CD-45II for a rotor.

Mike, W9WIS
--
Michael Melland, W9WIS
Winneconne, Wisconsin USA EN54pc
qrp-l #1656 - qrparci # 9875 - iparc #252
ars #1075 - http://www.qsl.net/w9wis

210. Re: What tower are you using ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-05 19:22:06 UTC
From: ku7q
Topic: 209 Message: 210

--- In hex-beam@y..., "Michael Melland" <w9wis@a...> wrote:
> Now that my Hex-Beam is on order I need to plan what type tower to
put it
> on. What are you guys using ? I know squat about towers.
I "think" crank
> up is the way for me to go.... over 6 ft off the ground I freeze up
> <grin>...

Mike,

One of the reasons I chose the Hex-Beam was because it didn't need a
tower.

For my installation (not yet completed BTW), I'm planning on using
three lengths of 10' x 1-1/4" rigid conduit attached to the side of
my two-story house. I chose a location where I have a mid-level pop-
out so I have two attachment points to the house, one at 11' and one
at 22'. I'm using Uni-stut brackets & conduit clamps lagged into the
facia to make the attachment to the house. For the foundation, I
bought a pre-formed cement 4x4 post base (the one with the u-shaped
post bracket on it), like you would use for anchoring a deck. I
buried it in the ground so just the mounting bracket is exposed.
Then I drilled a 1/2" hole in the bottom conduit and put a 1/2" bolt
through the u-bracket and the conduit, creating a hinged-base.

My "plan" is to assemble the entire mast, rotor, and antenna on the
ground (mast tilted up so the antenna clears the ground), then attach
a pulley at the top bracket on house and use a rope pull the whole
thing up vertical. I'll then have to get on the roof long enough to
attach two stablizing struts to the last 8' of mast above the roof.

I plan on taking pictures of the process and will post them in the
Photo section. So far, I have about $200 into the mast, rotor, rotor
cable and coax, not too bad for a 5-band beam!

Hope this helps,
Lynn, KU7Q

211. Re: What tower are you using ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-05 19:30:59 UTC
From: wb6roh
Topic: 209 Message: 211

I have mine on an old Triex 37TC (37' - 2 section light weight) crank up. It is at about 30' AGL due to city mandates. The rotator is an old AR22 with repeatability problems. The Hex seems to work well for me at this low elevation. If I could I woild probably run with the antenna at approximately 38' AGL. Due to the weight of your proposed rotator I would be cautious of using any of the cheaper garden variety push ups. You might call Mike at Traffie for additional info on his 30' mast. Good luck and welcome.

73 - Doug - WB6ROH

--- In hex-beam@y..., "Michael Melland" <w9wis@a...> wrote:
> Now that my Hex-Beam is on order I need to plan what type tower to put it
> on. What are you guys using ? I know squat about towers. I "think" crank
> up is the way for me to go.... over 6 ft off the ground I freeze up
> <grin>... so if I need to perform any maint. on it I'd like it to be low to
> the roofline. Planning to mount next to the house and bracket the tower for
> support onto the house ??? I'd even consider a roof tower although I
> suspect objections from the xyl on that.... a 150 year old house just might
> not look right with a tower on the roof <grin>.
>
> Any thoughts ? Advice ? How are those of you using the Hex push up tower
> mounting/rotating ? I have a Hy-Gain CD-45II for a rotor.
>
> Mike, W9WIS
> --
> Michael Melland, W9WIS
> Winneconne, Wisconsin USA EN54pc
> qrp-l #1656 - qrparci # 9875 - iparc #252
> ars #1075 - http://www.qsl.net/w9wis

212. Re: What tower are you using ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-05 20:49:12 UTC
From: w4wb
Topic: 209 Message: 212

--- In hex-beam@y..., "Michael Melland" <w9wis@a...> wrote:
> Now that my Hex-Beam is on order I need to plan what type tower to put it on. What are you guys using ? I know squat about towers. I "think" crank up is the way for me to go.... over 6 ft off the ground I freeze up <grin>... so if I need to perform any maint. on it I'd like it to be low to the roofline. Planning to mount next to the house and bracket the tower for support onto the house ??? I'd even consider a roof tower although I suspect objections from the xyl on that.... a 150 year old house just might not look right with a tower on the roof <grin>.
>
> Any thoughts ? Advice ? How are those of you using the Hex push up tower mounting/rotating ? I have a Hy-Gain CD-45II for a rotor.
>
> Mike, W9WIS
> --
> Michael Melland, W9WIS
> Winneconne, Wisconsin USA EN54pc
> qrp-l #1656 - qrparci # 9875 - iparc #252
> ars #1075 - http://www.qsl.net/w9wis

Hi Mike,

Dick W2GFF lives in Fairhope, AL and is 82 years old. His installation can be seen in the Photos section and the description in Message #15. I have been to his QTH and can tell you that this is a first-class way to go. Dick is always happy to share his knowledge.

73 de Barry - W4WB

213. RE: [hex-beam] What tower are you using ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-05 22:06:59 UTC
From: John Caulfield
Topic: 209 Message: 213

MA-40 Tubular crank □ up. Check it out on QRZ.com.

73□s John , KØFUZ

John Caulfield
Cleaves-Bessmer-Marietti, Inc.
johnc@...
www.cbmrep.com
816.353.6011
816.353.7277 Fax

-----Original Message-----
From: Michael Melland [mailto:w9wis@...]
Sent: Saturday, January 05, 2002 12:41 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] What tower are you using ?

Now that my Hex-Beam is on order I need to plan what type tower to put it on. What are you guys using ? I know squat about towers. I "think" crank up is the way for me to go.... over 6 ft off the ground I freeze up <grin>... so if I need to perform any maint. on it I'd like it to be low to the roofline. Planning to mount next to the house and bracket the tower for support onto the house ??? I'd even consider a roof tower although I suspect objections from the xyl on that.... a 150 year old house just might not look right with a tower on the roof <grin>.

Any thoughts ? Advice ? How are those of you using the Hex push up tower mounting/rotating ? I have a Hy-Gain CD-45II for a rotor.

Mike, W9WIS
--
Michael Melland, W9WIS
Winneconne, Wisconsin USA EN54pc
qrp-l #1656 - qrparci # 9875 - iparc #252
ars #1075 - http://www.qsl.net/w9wis

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<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

214. Up and running!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-06 00:31:39 UTC
From: Meiselman
Topic: 214 Message: 214

Hello to all:

OK...after a bit of waiting for weather, help from KR6CV, etc., # 188 is up on the roof of my two story house. It is mounted on a 4.5 foot G-M tower with about 6-8 inches of mast above the top of the tower. Thus, I guess its base is about 25 feet above ground level. Lots of coax seal on the top connector plus on each of the elements attached to the center post. Even 7 turns of coax on a 4.5" diameter plastic core...a slip coupling...female-female...for 4.5 inch plastic pipe.

IT SEEMS TO WORK VERY WELL! First contact was Quebec City, Canada, who said I was 59+ and the strongest signal he had ever received from the Los Angeles area. Either Mike T. has paid "shills" all over the USA and Canada, or else I got me a great antenna.

Look forward to being part of a sched and even trying for the rare and coveted "HXCC" award.

73,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

215. Re: Up and running!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-06 01:20:58 UTC
From: w4wb
Topic: 214 Message: 215

--- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> Hello to all:
>
> OK...after a bit of waiting for weather, help from KR6CV, etc., #
188 is up on the roof of my two story house.
<snip>>
> 73,
>
> Herb K6HJM
>
Congratulations Herb and well done! Hope to work you soon and get
another HB point for HXCC.

Listen out for 9U5D. He was on 12 m earlier. He was running the
pile split down and by the numbers. When he started taking 4's, it
was a mess. I waited for a few seconds and gave my call sign twice.
Happily, I was the first station to which he replied, with a 59
also! He was giving real reports. Next 3 were 57's. Think Mike had
him listening out for me? hi hi

Let us hear about you contacts too Herb. Have fun!

73 de Barry - W4WB

216. Photos of N0YD Hexbeam installation

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-06 03:11:39 UTC
From: tomac14
Topic: 216 Message: 216

Hi to all:

I just added two photos of my hexbeam intallation to the Photo section of the Hexbeam Users Group.

Photo #1 shows the Hexbeam on a tower sitting on my sundeck.

Photo #2 shows the bottom part of my 30 ft Rohn 25 tower sitting on a steel plate on my sundeck and strapped to the chimney.

I'm up to 7 on the HXCC Award and Barry W4WB is up to 10, I think.

Good DX to all Hexbeamers,

Tom, N0YD "Yankee Doodle"

217. Re: Up and running!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-06 03:59:16 UTC
From: wb6roh
Topic: 214 Message: 217

Congratulations Herb. We look forward to having you join our net sessions.

73 - Doug - WB6ROH

--- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> Hello to all:
>
> OK...after a bit of waiting for weather, help from KR6CV, etc., #188 is up
> on the roof of my two story house. It is mounted on a 4.5 foot G-M tower
> with about 6-8 inches of mast above the top of the tower. Thus, I guess
> its base is about 25 feet above ground level. Lots of coax seal on the top
> connector plus on each of the elements attached to the center post. Even 7
> turns of coax on a 4.5" diameter plastic core...a slip
> coupling...female-female...for 4.5 inch plastic pipe.
>
> IT SEEMS TO WORK VERY WELL! First contact was Quebec City, Canada, who
> said I was 59+ and the strongest signal he had ever received from the Los
> Angeles area. Either Mike T. has paid "shills" all over the USA and
> Canada, or else I got me a great antenna.
>
> Look forward to being part of a sched and even trying for the rare and
> coveted "HXCC" award.
>
> 73,
>
> Herb K6HJM
>
>
> Herbert J. Meiselman, ScD
> Professor and Vice-Chair
> Dept. Physiology and Biophysics
> Keck School of Medicine
> 1333 San Pablo Street
> Los Angeles, CA 90033
> 323-442-1268

> 323-442-2283 (FAX)
> meiselma@u...

218. Re: Photos of N0YD Hexbeam installation

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-06 04:05:02 UTC
From: wb6roh
Topic: 216 Message: 218

Nice clean looking installation, Tom. What rotator are you using? We missed you on 10 today. There were 6 of us; JA, AL, MA, BC, KS and CA. Look for you next week?

73 - Doug - WB6ROH

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> Hi to all:
>
> I just added two photos of my hexbeam intallation to the Photo
> section of the Hexbeam Users Group.
>
> Photo #1 shows the Hexbeam on a tower sitting on my sundeck.
>
> Photo #2 shows the bottom part of my 30 ft Rohn 25 tower sitting on
a
> steel plate on my sundeck and strapped to the chimney.
>
> I'm up to 7 on the HXCC Award and Barry W4WB is up to 10, I think.
>
> Good DX to all Hexbeamers,
>
> Tom, N0YD "Yankee Doodle"

219. Re: [hex-beam] Photos of N0YD Hexbeam installation

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-06 13:19:47 UTC
From: Sain'T Tom
Topic: 216 Message: 219

What is the URL for the HexBeam Users group?

thanks
Tom K4RV

[Non-text portions of this message have been removed]

220. Re: [hex-beam] Photos of N0YD Hexbeam installation

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-06 13:39:11 UTC
From: Philip Paulhus
Topic: 216 Message: 220

Tom:
http://groups.yahoo.com/group/hex-beam

Phil K1ICO
----- Original Message -----
From: "Sain'T Tom" <k4rv@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, January 06, 2002 8:19 AM
Subject: Re: [hex-beam] Photos of N0YD Hexbeam installation

> What is the URL for the HexBeam Users group?
>
> thanks
> Tom K4RV
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

221. Re: [hex-beam] Photos of N0YD Hexbeam installation

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-06 14:12:52 UTC
From: Sain'T Tom
Topic: 216 Message: 221

Thanks, Phil,

73 tom K4RV
----- Original Message -----
From: Philip Paulhus
To: hex-beam@yahoogroups.com
Sent: Sunday, January 06, 2002 8:39 AM
Subject: Re: [hex-beam] Photos of N0YD Hexbeam installation

Tom:
http://groups.yahoo.com/group/hex-beam

Phil K1ICO
----- Original Message -----
From: "Sain'T Tom" <k4rv@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, January 06, 2002 8:19 AM
Subject: Re: [hex-beam] Photos of N0YD Hexbeam installation

> What is the URL for the HexBeam Users group?
>
> thanks
> Tom K4RV
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
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hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

222. Progress report

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-07 03:27:31 UTC
From: Meiselman
Topic: 222 Message: 222

Hello to all:

For those of you who do not live in Southern California...today it was 75 F, blue skies, and a fantastic sunset!

I am now sure that Mike T. has paid hams in several countries to give very positive reports to anyone with a Hex Beam. Today easily worked YV5LAX who said I was 56+20 (really!). Also GI0TIC at a 57...the UK and Ireland are difficult from my QTH due to big dirt filters (aka San Gabriel Mountains) to the north of my house. Most amazing were contacts with LU1ECZ and LU3CQ...both said I was 59 or 59+ and I was only running 80 watts (the Ameritron amp was turned off and 80 is what I usually drive it at). So far, I am a very happy camper!

When someone has time, could they please send me the schedule for the HXCC group...freq and day and UTC ??

Many thanks,

73,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

223. Re: Progress report

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-07 03:36:08 UTC
From: wb6roh
Topic: 222 Message: 223

Herb,

Congrats again! The net currently meets at 2230Z on Saturdays on 28356. The other "listen" frequencies are posted undet the banner article on the group site. EX8O is on 14207.77 right now waiting for you!

73 - Doug - WB6ROH

--- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> Hello to all:
>
> For those of you who do not live in Southern California...today it was 75
> F, blue skies, and a fantastic sunset!
>
> I am now sure that Mike T. has paid hams in several countries to give very
> positive reports to anyone with a Hex Beam. Today easily worked YV5LAX who
> said I was 56+20 (really!). Also GI0TIC at a 57...the UK and Ireland are
> difficult from my QTH due to big dirt filters (aka San Gabriel Mountains)
> to the north of my house. Most amazing were contacts with LU1ECZ
> and LU3CQ...both said I was 59 or 59+ and I was only running 80 watts (the
> Ameritron amp was turned off and 80 is what I usually drive it at). So
> far, I am a very happy camper!
>
> When someone has time, could they please send me the schedule for the HXCC
> group...freq and day and UTC ??
>
> Many thanks,
>
> 73,
>
> Herb K6HJM
>
>
> Herbert J. Meiselman, ScD
> Professor and Vice-Chair
> Dept. Physiology and Biophysics
> Keck School of Medicine

> 1333 San Pablo Street
> Los Angeles, CA 90033
> 323-442-1268
> 323-442-2283 (FAX)
> meiselma@u...

224. "Erased" photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-07 20:20:16 UTC
From: wb6roh
Topic: 224 Message: 224

What happened to the last 4 photos that were posted? I had refered friends to the site to see some nice installations and noticed some have left.

Doug - WB6ROH

225. Re: "Erased" photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-08 00:58:00 UTC
From: w4wb
Topic: 224 Message: 225

I see them all Doug. Last four are from N0YD & K0FUZ. Are you still not seeing them?

73 de Barry - W4WB

--- In hex-beam@y..., "wb6roh" <wb6roh@a...> wrote:
> What happened to the last 4 photos that were posted? I had refered
> friends to the site to see some nice installations and noticed some
> have left.
>
> Doug - WB6ROH

226. Re: "Erased" photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-08 01:52:16 UTC
From: wb6roh
Topic: 224 Message: 226

For whatever reason, only 8 showed when I checked the site this morning from work. At home I see all 12. Must be magic. Thanks for the card. Yours goes out tomorrow. Guess I now have to start archiving Hex stations. I started working Hexs months before we met. Do these count?

WB6ROH

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> I see them all Doug. Last four are from N0YD & K0FUZ. Are you still
> not seeing them?
>
> 73 de Barry - W4WB
>
>
> --- In hex-beam@y..., "wb6roh" <wb6roh@a...> wrote:
> > What happened to the last 4 photos that were posted? I had refered
> > friends to the site to see some nice installations and noticed some
> > have left.
> >
> > Doug - WB6ROH

227. Re: "Erased" photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-08 02:07:39 UTC
From: w4wb
Topic: 224 Message: 227

Glad they came back. Yahoo! was having problems today, so who knows.

FB on QSL. Regarding HXCC credits, I would think that the DXCC rules apply in that a Hex-Beam worked anytime counts and from anywhere in your base entity. Comments?

73,
Barry - W4WB

--- In hex-beam@y..., "wb6roh" <wb6roh@a...> wrote:
> For whatever reason, only 8 showed when I checked the site this
> morning from work. At home I see all 12. Must be magic. Thanks for
> the card. Yours goes out tomorrow. Guess I now have to start
> archiving Hex stations. I started working Hexs months before we
met.
> Do these count?
>
> WB6ROH

228. Re: Homebrew Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-08 05:26:37 UTC
From: wb6roh
Topic: 208 Message: 228

Just saw your homebrew Hex photos. Nice job! From the detail I can make out, it appears the the tip to tip spacing between DE ends and REFL ends is quite wide. You may want to tighten these up a lot; remember the concern here of high voltage points though. If you look at the basic formulas that are in the article that Mike Traffie published in Communications Quarterly and Barry put on this site, you will see what I mean. Continued good luck!

Doug - WB6ROH

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi Barry,
>
> Thanks for the e-mail and encouragement!!
>
> Unfortunately conditions are really poor this evening so not much chance to
> give it a try out, but from what I can see I am getting some F/B ratio on
> all bands, which is good considering the small amount of time I have been
> tuning. Conditions to this part of the World have been pretty poor for the
> last week or so, so have not been able to give it such a good try out, but
> it seems to be OK for a first effort.
>
> Unfortunately, I will be out tomorrow so will miss the net, but a good idea
> for giving the antennas a try out.
>
> I wonder if you have had a look at the following site..
>
> http://www.cebik.com/4.html
>
> It gives a good theoretical comparison between the Hex and some similar
> antennas. Whilst I appreciate these models are never totally accurate, It
> does explain what I mean by the Hex having a "narrow bandwidth" with respect
> to F/B ratio.
>
> I suppose ultimately, it all comes down to what people are after. generally

> the first thing I look for in a beam is F/B ratio, as I usually run
pretty
> low power (CW and a little RTTY), and tend to work weaker more
marginal
> stations. Obviously good F/B ratio is more critical for eliminating
QRM. I
> think a lot of people get hung up on VSWR measurements, and at the
end of
> the day a good SWR reading tells you very little (that's my story
and I'm
> sticking to it!!). To a lesser extent. I think antenna gain is also
a much
> over used phrase, and whilst everyone would like to think they have
a
> "super-gain" array in the Hex-beam, I would challenge anyone to
explain to
> me what one of these is - as I don't have a clue.
>
> Anyway, enough bitching!! I do think that the Hex is a definite
contender
> for "THE BEST COMMERCIAL SMALL BEAM ON THE MARKET", when you
consider size,
> windloading, and design into the equation. I think I will take some
> convincing that it is better than the C3SS, especially when you
factor price
> in!!!! As to whether the hex will perform as well as properly
adjusted 3
> element Yagi (as has been suggested) - "well this is time of year
we are
> expected to believe in Santa Claus".
>
> I must admit, when I look at antenna prices, I think about how much
it would
> cost me to make the same thing - and with the Hex, I would say about
> $150-200US. I do however, now, appreciate some of the initial work
that must
> of went into the design of the antenna, and if this was is to be
factored
> into the price along with construction costs - well maybe $1000 is
cheap??
>
> Anyway, thanks again for the mail Barry and CUL
>
> David, VK2DPD
>
>
>
>
>
>

> ----- Original Message -----
> From: "w4wb" <w4wb@a...>
> To: <vk2dpd@b...>
> Sent: Friday, January 04, 2002 10:50 AM
> Subject: Hex-Beam
>
>
> > Hi David,
> >
> > Good show and FB on the "hamercise" rotor approach. How are you
> > sealing it for weather as it passes through the roof?
> >
> > Regarding F/B measurements. The S-meter on my FT-1000MP is well
> > calibrated first of all. In the low part of the phone bands
(14.2,
> > 21.25, 28.45, etc.), I have measured from the low to upper 20's.
In
> > the past week or so, any such test was not so meaningful since it
> > seems both the long and short paths were open to some extent.
> > Yesterday on 10 m, the difference in paths was maybe just in the
10
> > dB range while the paths to VK were open. About 3-4 weeks ago, I
> > worked an EA8 using a C3SS with us both running 10/9 solid &
stable
> > for about 30 minutes. The (10 m as I recall) long path was dead
it
> > seemed. He also was using a FT-1000MP. Both of us showed 4 to 4-
1/2
> > S-unit F/B. He intends to replace his C3SS with a HB.
> >
> > What gauge wire did you use finally? The HB uses #14 stranded.
> > FWIW, Traffie says the tuning of the HB is a bit tricky to find
> > the "sweet spot." It makes the difference between mediocre and
> > excellent performance.
> >
> > Hope we do hear you on Saturday David.
> >
> > 73 de Barry - W4WB
> >

229. Homebrew Hex Pictures

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-08 06:55:34 UTC
From: David Douglass
Topic: 229 Message: 229

Hi All,

Have just loaded a few pictures of the completed 5 band homebrew Hex to the pictures page a Yahoogroups.

These are all of the completed installation, and were taken last night on a digital camera. I have some close up pic's, but these will have to wait to I get a film developed and scanned in.

Basically the hex is made of 6x 3metre lengths of 16.5mm Tasmanian Oak dowel. These have been extended by a further 12 inches or so, with thinner doweling that is inserted into holes drilled in the ends of the thicker wood. This join is re-enforced with a hose clamp. The centre plate is the end of a drum from a roll of coax (thanks EI7BA for the idea), and the centre pose a length of PVC pipe.

All the wood is treated with 2 coats of decking oil and given a spray of silver car body paint (all I had a hand). The connection points on the centre post are brass bolts that are inserted into drilled holes in the post. This is tricky operation, but quite manageable. I have used a length of 300ohm ladder line to join these up to form the single feed system (again all I have available).

The elements themselves are made from a roll of speaker cable I had available, and are considerably thinner than 14SWG, but again I had it in the shack and this is fine in this prototype.

The element ends are soldered to brass washers, that inturn are screwed onto the brass bolts of the centre post.

To allow adjustment of the element length, I initially cut the dipole elements and reflectors to the same length (approx 450inches for 20M). I then cut off about 3 feet from both ends and soldered a brass washer/ring in place and then soldered the 3 foot of wire back on. I then tied a 3 foot length of string to the washer to hold the element in place, leaving me with 3 foot of wire to prune from both ends.

The centre post has an end cap, with a SO239 connector in place (a lid from a can of fly spray).

I initially held all the elements in place with nylon rope connected to the centre post. Once the elements are connected, the rope can be removed. The wire connects to the spreaders by means of plastic tie wraps or similar. Once everything is in-place the pruning can begin.

"Sound Simple"??, well it actually is. probably the best thing about the geometry of the hex is that the design is basically simple. In fact so

simple it's brilliant. Most of the construction techniques used were a bit 'dodge to say the least but I only plan on having the thing up a month or so to evaluate the performance.

I initially tuned the antenna about 5 foot off the ground, and then finished on the roof at about 15 foot. SWR is V.Good on 20M, 12M and 10M, resonance is at 18.300 on 17M and I can only get the SWR on 15M to about 3:1. I think this may have as much to do with my feed system than the antenna itself.

F/B ratio is roughly about 3 S-points on all bands, although 15M seems to be not as good as the other bands. As for the gain, I haven't got a clue (does anyone know the gain on the HX5 Beam??).

I think there is still quite a bit of work to do on the tuning side, but plan on leaving it up for a month or so just to get a rough idea of how it works.

If all goes well, I then plan on making a MKII version, with individual feeds for each element (I don't like multiple feed systems, and envisage that individual feeds will improve performance and make tuning easier, by decreasing the interactions between elements).

So there you go. All up cost of the Mk was about $60US (including an extra set of spreaders), and I would imagine the completed MKII should total at around $100, with more sturdy wire elements and longer term construction methods. It's still too early to talk about performance, but I seem to be working everyone I call and performance in the recent RTTY ARRL Round-up was encouraging (with 50watts). I'd like to improve the F/B ratio a little, but don't expect the Hex to match my old Moxon Rectangle which is noted for its excellent F/B ratio.

In summary I'd say that the important parts are having good quality spreaders that will tension the wires correctly and obviously not snap them. Have good quality wire, and have some method to minimise the chance of breakage at the connection points. The actual tuning is pretty straight forward, and whilst I have heard it said that tuning of the antenna is very (very very!!) critical to performance, I really believe that good performance can be achieved with minimal effort and a little fiddling about (and will take some convincing otherwise).

So there you go, a Hex-Beam on the cheap!!

David

vk2dpd@...
vk2dpd@...

230. Tip spacing

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-08 11:28:11 UTC
From: David Douglass
Topic: 230 Message: 230

Hi Doug and thanks for your comments.

OK on the tip spacing. Although it's difficult to tell on the photo's, the tips are actually a lot closer together, but the end bits of the elements are taped to the green string so you can't see them. This was my initial effort to allow pruning of the elements without having to restring the whole array everytime I cut a little off.

Whilst they are not quite the dimensions suggested in Mike Traffie's paper, they're actually pretty close, and I plan to follow his design a little more closely when I put the new wire up and feed each of the elements separately.

Regards to all from hot and sticky NSW

David
vk2dpd@...
vk2dpd@...

231. photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-08 12:45:44 UTC
From: dale messerschmidt
Topic: 231 Message: 231

were do you find the photos of the hex-beams

thanks
k8nke

232. Re: photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-08 13:19:38 UTC
From: w4wb
Topic: 231 Message: 232

--- In hex-beam@y..., dale messerschmidt <k8nke@y...> wrote:
> were do you find the photos of the hex-beams
>
> thanks
> k8nke

Hi Dale,

You need to log in on http://groups.yahoo.com/group/hex-beam and click on the Photos selection in the left panel on your screen. This is how you access files and bookmarks too.

73 de Barry - W4WB

233. Re: Homebrew Hex Pictures

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-08 13:23:03 UTC
From: w4wb
Topic: 229 Message: 233

Great report David and well done! Thanks for sharing your effort.

BTW, Tasmanian Oak is a bit hard to come by here. ;-)

73 de Barry - W4WB

234. HXCC

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-08 18:04:40 UTC
From: w4wb
Topic: 234 Message: 234

Below are the HXCC Award rules. They were developed by WB6ROH, N0YD, and W4WB. Please send any comments for improvements to W4WB.

A copy of the rules can be found in the Files section in the HXCC Awards folder.

Thanks es 73,
Barry - W4WB

HXCC Rules

OBJECTIVE: The HXCC Award is to recognize the achievement of working at least 100 band-stations that are using a HEX-BEAM type antenna. The 5BHXCC Award recognizes the achievement of working at least 100 stations on each of any bands.

Award: A certificate of achievement will be issued to those qualifying.

Rules:
1. It is based upon the honor system, QSL cards are not required.
2. You are not required to be a HEX-BEAM owner or using a HEX-BEAM to participate. Only the station you work is required to be using a HEX-BEAM type antenna.
3. A HEX-BEAM type antenna means either a factory built HEX-BEAM or a homebrew antenna that utilizes the basic design of the HEX-BEAM.
4. It requires 100 points to qualify for the HXCC Award.
5. There is no time limit on the contacts you make, e.g., a contact in 1997 is valid.
6. Only contacts you make from your stations operating within your entity, as defined in the DXCC rules, will be considered valid.
7. A point is defined as working a station (not an operator) using a HEX-BEAM on a given band. For example, working the same HEX-BEAM station on 18 m, 12 m, and 10 m counts as 3 points. Working different operators at the same physical station does not count as extra points.
a. You are required to submit a list of the contacts that has the following data:
b. Date
c. Time
d. Station call sign
e. Freq/Band
f. Mode
g. Reports
h. Op Name
i. HEX-BEAM SN if known or if homebrew
8. 5-Band HXCC (5BHXCC) requires 100 points per band (presently 6,

10, 12, 15, 17, 20, 30, and 40 m bands have HEX-BEAM operation).
9. Excel electronic file submittal is desired.

Certificate Request: Submit your data to W4WB.

"HEX users can't be SQUARES or ever OBTUSE since HEX-BEAM ops are more ACUTE"

235. Homebrew Hex - 8 bander

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-09 11:16:31 UTC
From: David Douglass
Topic: 235 Message: 235

I've just worked A35VK on 80M, 40M and 30M using my Homebrew Hex - does that mean it qualifies as 8 bander and if so how much must it be worth??

Wonder if anyone else has worked any DX "out of band".

Regards

David
vk2dpd@...
vk2dpd@...

236. Re: Homebrew Hex - 8 bander

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-09 13:53:51 UTC
From: w4wb
Topic: 235 Message: 236

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> I've just worked A35VK on 80M, 40M and 30M using my Homebrew Hex - does that mean it qualifies as 8 bander and if so how much must it be worth??
>
> Wonder if anyone else has worked any DX "out of band".
>
> Regards
>
> David
> vk2dpd@q...

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> I've just worked A35VK on 80M, 40M and 30M using my Homebrew Hex - does that mean it qualifies as 8 bander and if so how much must it be worth??
>
> Wonder if anyone else has worked any DX "out of band".
>
> Regards
>
> David
> vk2dpd@q...

WOW David! What I don't understand is that you didn't make the contact on 160 m too! hi hi Impressive.

FWIW, I will take the 259B to the office today and scan my HX-5B over the 30, 40 and 80 m bands, and see what it looks like. OK, will look at 160 m too. :-)

Wonder if it is that Tasmanian Oak you are using? Ummm.....

73 de Barry - W4WB

237. Re: [hex-beam] Re: Homebrew Hex - 8 bander

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-09 19:57:09 UTC
From: David Douglass
Topic: 235 Message: 237

Barry,

I would think that my coax is doing a fair share of the radiating, but I know that the performance on 30M seems OK, and have worked Europe from here on that band with the Hex. There is quite a bit if wire up there, and I know someone who works a lot of DX with his 5 band quad on 80M.

To be honest - A35 is only about 3500Km from here, so its not really DX, but this is only my 6th country on that band as I've never had an antenna for 80.

Regards to all

David, VK2DPD
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Wednesday, January 09, 2002 1:53 PM
Subject: [hex-beam] Re: Homebrew Hex - 8 bander

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> I've just worked A35VK on 80M, 40M and 30M using my Homebrew Hex -
does that mean it qualifies as 8 bander and if so how much must it be
worth??
>
> Wonder if anyone else has worked any DX "out of band".
>
> Regards
>
> David
> vk2dpd@q...

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> I've just worked A35VK on 80M, 40M and 30M using my Homebrew Hex -
does that mean it qualifies as 8 bander and if so how much must it be
worth??
>
> Wonder if anyone else has worked any DX "out of band".
>
> Regards
>
> David
> vk2dpd@q...

WOW David! What I don't understand is that you didn't make the
contact on 160 m too! hi hi Impressive.

FWIW, I will take the 259B to the office today and scan my HX-5B over the 30, 40 and 80 m bands, and see what it looks like. OK, will look at 160 m too. :-)

Wonder if it is that Tasmanian Oak you are using? Ummm.....

73 de Barry - W4WB

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[Non-text portions of this message have been removed]

238. Re: Homebrew Hex - 8 bander

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-09 23:30:16 UTC
From: wb6roh
Topic: 235 Message: 238

What type of T-match do you have between your rig and coax? Have you tied the center and shield together and fed the whole thing as an end-fed wire?

Doug - WB6ROH

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> I've just worked A35VK on 80M, 40M and 30M using my Homebrew Hex - does that
> mean it qualifies as 8 bander and if so how much must it be worth??
>
> Wonder if anyone else has worked any DX "out of band".
>
> Regards
>
> David
> vk2dpd@q...
> vk2dpd@b...

239. Re: [hex-beam] Re: Homebrew Hex - 8 bander

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-10 08:43:48 UTC
From: David Douglass
Topic: 235 Message: 239

Hi Doug,

Well, strangely enough I can tune 80M with just the rigs internal tuner, although I need an external job for 30 and 40M.

I had already mentioned to Bill that the Hex seems to radiate OK on 30M, and that I have worked about 80DXCC on that band using the 20M element on my old wire Moxon.

I wouldn't like to hazard a guess which parts are radiating on these other bands, and would suspect that performance on 80/40M will be very poor, but Tonga is pretty close to here, and if you don't have another antenna, it's better than nothing.

Regards

David
----- Original Message -----
From: wb6roh
To: hex-beam@yahoogroups.com
Sent: Wednesday, January 09, 2002 11:30 PM
Subject: [hex-beam] Re: Homebrew Hex - 8 bander

What type of T-match do you have between your rig and coax? Have you tied the center and shield together and fed the whole thing as an end-fed wire?

Doug - WB6ROH

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> I've just worked A35VK on 80M, 40M and 30M using my Homebrew Hex - does that
> mean it qualifies as 8 bander and if so how much must it be worth??
>
> Wonder if anyone else has worked any DX "out of band".
>
> Regards
>
> David
> vk2dpd@q...
> vk2dpd@b...

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[Non-text portions of this message have been removed]

240. Re: Homebrew Hex - 8 bander (but not the HX-5B)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-10 22:45:36 UTC
From: w4wb
Topic: 235 Message: 240

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> I've just worked A35VK on 80M, 40M and 30M using my Homebrew Hex - does that mean it qualifies as 8 bander and if so how much must it be worth??
>
> Wonder if anyone else has worked any DX "out of band".
>
> Regards
>
> David
> vk2dpd@q...

Hi David,

I measured my HX-5B today and it showed a SWR of about 12:1 on 30 m and >25:1 on 40 and 80 m. With a tuner, I should think I could match up on 30 m, but have no idea how it would work.

I think you must have the World's record for number of bands from this type antenna!

73 de Barry - W4WB

241. I worked with BV on 30m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-11 09:34:42 UTC
From: jr1nhd_shin
Topic: 241 Message: 241

Hi,

Following David, I could work with BV/DL3KR on 30 m last night.
I used FT-1000 internal tuner. He gave me 579 and I sent 559.
I am not sure if this is the normal signal strength from Taiwan
with the matched antenna; anyway I made it. JA to BV is like
VK to A35, hi. I could also tune 40 and 80 m easily but did not
try these bands.

73, JR1NHD - Shin

242. Re: I worked with BV on 30m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-11 13:43:53 UTC
From: w4wb
Topic: 241 Message: 242

Hi Shin,

Congratulations! What's next?

Isn't the FT-1000's internal tuner range 3:1? The MFJ-259 showed the SWR on 30 m for my HX-5B well outside the range for the tuner in the FT-1000MP. On 40 and 80 m, it was very high SWR. Ummmm.....

Did you observe any directivity?

73 de Barry - W4WB

--- In hex-beam@y..., "jr1nhd_shin" <jr1nhd@m...> wrote:
> Hi,
>
> Following David, I could work with BV/DL3KR on 30 m last night.
> I used FT-1000 internal tuner. He gave me 579 and I sent 559.
> I am not sure if this is the normal signal strength from Taiwan
> with the matched antenna; anyway I made it. JA to BV is like
> VK to A35, hi. I could also tune 40 and 80 m easily but did not
> try these bands.
>
> 73, JR1NHD - Shin

243. Re: I worked with BV on 30m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-11 14:33:59 UTC
From: jr1nhd_shin
Topic: 241 Message: 243

Hi Barry,

Tonight I worked with WA7CWM at Nevada with 579-579 on 40m. He was
running 500watts while I was running 100watts cos I was afraid of
any interference radiated from coax. I feel some directivity but not
sure if it is because ofthis beam or QSB. I also tried RV6 station
on 30m but he could not copy my callsign.
so mine is HX-7Bi now hi.

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Hi Shin,
>
> Congratulations! What's next?
>
> Isn't the FT-1000's internal tuner range 3:1? The MFJ-259 showed
the
> SWR on 30 m for my HX-5B well outside the range for the tuner in
the
> FT-1000MP. On 40 and 80 m, it was very high SWR. Ummmm.....
>
> Did you observe any directivity?
>
> 73 de Barry - W4WB
>

244. New to group

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-11 18:00:47 UTC
From: tombred55126
Topic: 244 Message: 244

Just found out about this group a couple of days ago. I wish I had all of these resources last summer when I built my 10 meter version using pvc for the spreaders and a piece of wood for the center hub. I built the antenna in a few hours and put it up the next day. It was virtually a plug and play project. Never had to adjust the lengths for matching. It was very impressive when compared to my 14avq vertical. Usually gives a 2-3 s-unit gain over the vertical and a 5-6 s-unit front/side ratio. f/b is a couple of s-units which leads me to believe that I could do a bit of tweaking with the reflector which is only about 3% longer than the driven element. By the way, the antenna is only up about 10 feet off the ground. I am still trying to figure out how to get it up higher. A tower is not an option. I am trying to keep a low profile going. I hope to visit the net tomorrow depending upon my schedule.

73,
KC0INP
kc0inp@...

245. Re: New to group

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-11 18:09:35 UTC
From: w4wb
Topic: 244 Message: 245

--- In hex-beam@y..., "tombred55126" <cromaclear@h...> wrote:
<snip> I hope to visit the net tomorrow depending upon my schedule.
>
> 73,
> KC0INP
> kc0inp@a...

Hi Tom,

Welcome to the group. Hope you can make it to the net tomorrow. Am sure your experiences will be a good topic!

73 de Barry - W4WB

246. 30 m Operation of the HX-5B is for real!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-11 18:29:08 UTC
From: w4wb
Topic: 246 Message: 246

After reading Shin's post, I just had to see if my FT-1000MP would load up my HX-5B even though the MFJ-259B indicated very high SWR.

Confirming Shin and David's experience, my MP loaded up OK. In fact the MP's SWR meter indicated less than 1.3:1! Not sure why, but I'll accept it and use it.

Next I decided to see if I was having low blood sugar or something and not reading the meters correctly. I gave a single CQ using only the FT-1000MP at 100 W (US hams are limited to 200 W on 30 m). W0LSU in MO came back with a 599 report. He was 579. I told him what I was doing and turned the beam 180 degrees. He reported that the signal dropped to a 589, but the the 599 was really with a plus on the first 9! While he was replying, I rotated the beam back towards him and passed through a null it seemed. At first, I figured that the HX-5B might behave like a dipole sort of, but no, it still is acts like a beam!

Unbelievable!

OK, not to be faint of heart, I gave 40 m a go. In the phone band, it was a bust; however, the old MP loaded up nicely in the CW band with the minimum SWR (near 1:1) at 7.050 kHz. I have not tried operating yet on 40 m with it (band was dead it appeared at that point except for a few "local" guys on phone). No idea if it will show directivity, but at this point, I am expecting it too. hi hi

Thanks to David for my "new" 30 m beam!

73 de Barry - W4WB
"Now HEXing 30 m"

247. Re: 30 m Operation of the HX-5B is for real!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-11 18:33:15 UTC
From: tombred55126
Topic: 246 Message: 247

Did you ground the analyzer to your station ground when you took the measurements. I am assuming that your rig is grounded.

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> After reading Shin's post, I just had to see if my FT-1000MP would
> load up my HX-5B even though the MFJ-259B indicated very high SWR.
>
> Confirming Shin and David's experience, my MP loaded up OK. In fact
> the MP's SWR meter indicated less than 1.3:1! Not sure why, but I'll
> accept it and use it.
>
> Next I decided to see if I was having low blood sugar or something
> and not reading the meters correctly. I gave a single CQ using only
> the FT-1000MP at 100 W (US hams are limited to 200 W on 30 m). W0LSU
> in MO came back with a 599 report. He was 579. I told him what I was
> doing and turned the beam 180 degrees. He reported that the signal
> dropped to a 589, but the the 599 was really with a plus on the first
> 9! While he was replying, I rotated the beam back towards him and
> passed through a null it seemed. At first, I figured that the HX-5B
> might behave like a dipole sort of, but no, it still is acts like a
> beam!
>
> Unbelievable!
>
> OK, not to be faint of heart, I gave 40 m a go. In the phone band,
> it was a bust; however, the old MP loaded up nicely in the CW band
> with the minimum SWR (near 1:1) at 7.050 kHz. I have not tried
> operating yet on 40 m with it (band was dead it appeared at that
> point except for a few "local" guys on phone). No idea if it will
> show directivity, but at this point, I am expecting it too. hi hi
>
> Thanks to David for my "new" 30 m beam!
>
> 73 de Barry - W4WB
> "Now HEXing 30 m"

248. Re: 30 m Operation of the HX-5B is for real!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-11 20:44:48 UTC
From: w4wb
Topic: 246 Message: 248

Yes Tom, all were grounded. I also heard a station just now on 40 m CW and the old HX-5B showed about 1.5 S-unit F/B. On 30 m, the R=7 and the X=32. Appears that these are in the range for the MP's tuner. Most interesting antenna.

73 de Barry - W4WB

--- In hex-beam@y..., "tombred55126" <kc0inp@h...> wrote:
> Did you ground the analyzer to your station ground when you took the measurements. I am assuming that your rig is grounded.
>
>

249. tower/windload

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-11 21:21:54 UTC
From: Barry Baker
Topic: 249 Message: 249

First post to this new group.
I am buying the 5 band model and looking for the appropriate tower.
What is the windload of this antenna?
Do you think I could get by with this http://www.texastowers.com/b14.htm?
Universal tower
Model B-14
Aluminum
Free-Standing
30' tall
4.5 sq. ft. wind load

Thanks
Barry
KC0LCL

[Non-text portions of this message have been removed]

250. 30M use and 10M net

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-11 23:36:51 UTC
From: David Douglass
Topic: 250 Message: 250

Hi All,

Just had a listen to the net frequency but nothing in this part of the world. I then realised that 22:30 on Saturday is actually Sunday in this part of the World, so missed out by a whole day??

As for 30M operation, I've had a lot of success on this band using my old wire beam and I suppose that the Hex should not be too dissimilar.

I thought in theory that the antenna should radiate in the opposite direction to the other bands as the 20M reflector would act as a director on 30M. However, this didn't really seem to be the case and it turned out to be pretty omni-directional. To be honest, another reason operation will seem OK on this band is that not many stations are using 'BIG' antennas down here, and therefore you have more of a chance to compete. Also being CW only, signals are a lot more likely to get through, as everyone know CW is by far the most effect mode!!! (no arguments please!)

As for 40/80M, operation on these bands is pretty much novelty value only, and all I've ever worked here is Pacific stations within about 5000Km. Then again, if you don't have an antenna for these bands its better than nothing. Doug's suggestion of shorting out the coax at the radio and using it as a top loaded vertical could be a go, but I have a metal roof on the shack and half of the coax is underneath it so radiation will not be too good, although I do plan on giving it a go. I suppose you could also look at using your tower as the radiator and the Hex as a capacitance hat, although I suppose you would then need to use relays to short out the antenna to the tower and things then get a bit technical.

Anyway, good luck with the experimentation and CU on 30M and hopefully the 10M net tomorrow.

David. VK2DPD

vk2dpd@...
vk2dpd@...

251. Re: tower/windload

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-12 01:24:51 UTC
From: w4wb
Topic: 249 Message: 251

Hi Barry,
Somewhere (maybe on the www.hexbeam.com FAQ) I have seen that it is about 5 sq. ft. I haven't calculated it myself, but that number seems high. That is a nice little tower. Have you considered an crank-up, tilt-over like one from Aluma Towers?
http://www.alumatower.com/crankup1.html
73 de Barry - W4WB

--- In hex-beam@y..., "Barry Baker" <barryb@i...> wrote:
> First post to this new group.
> I am buying the 5 band model and looking for the appropriate tower.
> What is the windload of this antenna?
> Do you think I could get by with this
http://www.texastowers.com/b14.htm?
> Universal tower
> Model B-14
> Aluminum
> Free-Standing
> 30' tall
> 4.5 sq. ft. wind load
>
> Thanks
> Barry
> KC0LCL
>
>
> [Non-text portions of this message have been removed]

252. Re: 30 m Operation of the HX-5B is for real!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-12 01:27:55 UTC
From: w4wb
Topic: 246 Message: 252

I typed the contact's call sign wrong in the post. It was W0LHU, not W0LSU (I grew up in Tiger Town, Baton Rouge, LA -- home of LSU!).
73 de Barry - W4WB
"Now HEXing 30 m & maybe 40 m"

253. Re: [hex-beam] Re: tower/windload

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-12 01:39:40 UTC
From: Barry Baker
Topic: 249 Message: 253

Yea, That looks good. But could not find a price list.

Originally was looking at a similiar tower from US
Towers(TMM-433s)http://www.ustower.com/selfsupport.html
$1200

10-12 week lead-time was a turn-off.

73
Barry

----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Friday, January 11, 2002 7:24 PM
Subject: [hex-beam] Re: tower/windload

Hi Barry,
Somewhere (maybe on the www.hexbeam.com FAQ) I have seen that it is
about 5 sq. ft. I haven't calculated it myself, but that number
seems high. That is a nice little tower. Have you considered an
crank-up, tilt-over like one from Aluma Towers?
http://www.alumatower.com/crankup1.html
73 de Barry - W4WB

--- In hex-beam@y..., "Barry Baker" <barryb@i...> wrote:
> First post to this new group.
> I am buying the 5 band model and looking for the appropriate tower.
> What is the windload of this antenna?
> Do you think I could get by with this
http://www.texastowers.com/b14.htm?
> Universal tower
> Model B-14
> Aluminum
> Free-Standing
> 30' tall
> 4.5 sq. ft. wind load
>
> Thanks
> Barry
> KC0LCL
>
>
> [Non-text portions of this message have been removed]

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254. Re: tower/windload

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-12 01:53:07 UTC
From: w4wb
Topic: 249 Message: 254

You can see photos of it with W2GFF's HX-5B in the Photos section.
Dick would be happy to talk to you about the tower. Email me direct
for his phone number if you want to call him.

73 de Barry - W4WB

--- In hex-beam@y..., "Barry Baker" <barryb@i...> wrote:
> Yea, That looks good. But could not find a price list.
>
> Originally was looking at a similiar tower from US Towers(TMM-433s)
http://www.ustower.com/selfsupport.html
> $1200
>
> 10-12 week lead-time was a turn-off.
>
> 73
> Barry
>
> ----- Original Message -----
> From: w4wb
> To: hex-beam@y...
> Sent: Friday, January 11, 2002 7:24 PM
> Subject: [hex-beam] Re: tower/windload
>
>
> Hi Barry,
> Somewhere (maybe on the www.hexbeam.com FAQ) I have seen that it
is
> about 5 sq. ft. I haven't calculated it myself, but that number
> seems high. That is a nice little tower. Have you considered an
> crank-up, tilt-over like one from Aluma Towers?
> http://www.alumatower.com/crankup1.html
> 73 de Barry - W4WB
>
>
> --- In hex-beam@y..., "Barry Baker" <barryb@i...> wrote:
> > First post to this new group.
> > I am buying the 5 band model and looking for the appropriate
tower.
> > What is the windload of this antenna?
> > Do you think I could get by with this
> http://www.texastowers.com/b14.htm?
> > Universal tower
> > Model B-14
> > Aluminum

> > Free-Standing
> > 30' tall
> > 4.5 sq. ft. wind load
> >
> > Thanks
> > Barry
> > KC0LCL
> >
> >
> > [Non-text portions of this message have been removed]
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255. SWR numbers

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-12 03:23:23 UTC
From: Meiselman
Topic: 255 Message: 255

Hello to all!

I realize (I think) the danger of focusing too much attention on SWR numbers rather than just using an antenna. However, since I just put up my HX-5B last weekend, and since I seem to have several devices that claim to measure SWR, I fell into the trap of doing the measurements.

My system is a Kenwood TS570D into an Ameritron 811H into a MFJ 986 tuner into a Daiwa CN801 "professional" meter into 100 feet of 9913F coax into the HX-5B. In addition, I am able to connect a MFJ 259B analyzer at the beginning of the 9913 coax. For the tests below, the Ameritron was turned off (its power switch off) and it was in the "bypass mode" so that it did not act as a tuner. Also, the antenna tuner in the Kenwood was turned off. 80 watts CW (just long enough to get a reading) was the test signal from the Kenwood; the MFJ 259B provides its own signal.

For the results below, the four SWR values at each frequency are the values obtained from: 1) the Kenwood graphical display; 2) the meter on the MFJ 986 tuner; 3) the Daiwa CN801 meter; 4) the MFJ 259B analyzer.

28.300 1, 1.4, 1.8, 2.4
28.500 1, 1.9, 2.4, 3.1
28.700 1.2, 2.4, 2.9, 4.0
28.900 1.6, 2.5, 3.5, 4.9

24.930 1, 1.3, 1.6, 2.1
24.990 1, 1.2, 1.5, 2.1

21.200 1.2, 1.4, 1.6, 2.2
21.450 1.2, 1.4, 1.7, 2.2

18.100 1.6, 1.8, 2.0, 2.6
18.168 1.6, 1.6, 1.7, 2.3

14.150 1.6, 1.8, 2.1, 2.8
14.250 1.3, 1.6, 1.8, 2.5
14.350 1.2, 1.4, 1.7, 2.5

As you can see, the Kenwood meter is the most "generous" or "optimistic", whereas the MFJ 259B analyzer gives the "worst" information. The MFJ analyzer is fairly new (about 1 year old) and seldom used, so I'm not sure why it gives such high SWR values.

OK...now what? I guess if we ignore the MFJ analyzer data (the last value for each frequency), then the only area of concern is at the higher regions of 10 M (28.5 and above). Or do I trust the silly scale on the Kenwood and say all is OK everywhere? Hard to believe the Daiwa meter is bad, and also

hard to believe the segments on the Kenwood are the most accurate way to get SWR information.

Any comments from anyone would be appreciated. Any thoughts about why the MFJ analyzer is so high? Any tricks (or value) to lowering the values for 10 M?

I look forward to any and all responses, and also to meeting some of you on the net tomorrow.

Many thanks and 73,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

256. Re: [hex-beam] SWR numbers

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-12 04:05:29 UTC
From: Brad Sumner
Topic: 255 Message: 256

Herb,

I would find it interesting to do the same test into a known 50 ohm dummy load with just a 50 ohm transmission line.

I'm using a 756ProII and have a MJF Tuner/SWR meter and the MJF antenna analyzer. I'll try a similar test this weekend and see what results I get.

73,

Brad K0TRL

257. Re: [hex-beam] SWR numbers

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-12 17:39:44 UTC
From: Meiselman
Topic: 255 Message: 257

Brad:

The mystery continues! Using a 50 ohm dummy load, the MFJ analyzer reads 1.2 to1.3 over all the bands. Also, with a 50 ohm load, the Kenwood segments indicate 1 and the meter on the MFJ tuner shows 1.1 to 1.2.

SO...the MFJ seems strange in real use, but not with a dummy load. Maybe I'm the dummy?

73,

Herb

At 10:05 PM 1/11/2002 -0600, you wrote:
>Herb,
>
>I would find it interesting to do the same test into a known 50 ohm
>dummy load with just a 50 ohm transmission line.
>
>I'm using a 756ProII and have a MJF Tuner/SWR meter and the MJF antenna
>analyzer. I'll try a similar test this weekend and see what results I
>get.
>
>73,
>
>Brad K0TRL
>
>
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268

323-442-2283 (FAX)
meiselma@...

[Non-text portions of this message have been removed]

258. Re: [hex-beam] SWR numbers

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-12 20:50:07 UTC
From: Eric Carling
Topic: 255 Message: 258

Herb, you are not a dummy but making a minor oversight in the theory relating to SWR. It sounds pretentious to give this explanation, because by nature it is technical, but I'm merely providing some reasoning for the different readings being obtained (note that they are being obtained at different points in the feed from antenna to radio - that's the clue).

In brief: when a transmission line is terminated by a resistance value equal to its characteristic impedance (as in a dummy load and a short length of coax), there is no reflection and the SWR will at or near unity at any point of measurement. But when the line is not correctly terminated (though strange to say, as when connected to an antenna - even one near resonance), the voltage to current ratio is not the same for the load as for the line and the power fed along the line cannot all be absorbed (or radiated). The forward wave and reflected wave interact all along the line to set up a standing wave. Although not a pure sine wave, it is sinusoidal. I can't draw a sine wave here but I'm sure you know what its characteristics are. Depending on where in the wave you take the measurement will determine the SWR reading. In other words it will vary and in fact if you took enough measurements it would go up to a peak and drop again.

Manufacturers of modern transceivers use a technique to ensure that the near lowest SWR on the line is what the meter reads. The MFJ reads true for the position in the line that you have placed it providing it is also indicating the correct resistance of the line. Usually it will only do this if the line length is very short. The true SWR (of the antenna) is therefore only correctly measured by a MFJ analyser and only at or near the antenna ie with just a few feet of coax attached. Other measurements at other places in the feedline are misleading.

Enough sermonising, this is meant to be about Hexbeams. Hope no-one takes offence.

Eric G0CGL.

----- Original Message -----
From: Meiselman
To: hex-beam@yahoogroups.com
Sent: Saturday, January 12, 2002 5:39 PM
Subject: Re: [hex-beam] SWR numbers

Brad:

The mystery continues! Using a 50 ohm dummy load, the MFJ analyzer reads 1.2 to1.3 over all the bands. Also, with a 50 ohm load, the Kenwood segments indicate 1 and the meter on the MFJ tuner shows 1.1 to 1.2.

SO...the MFJ seems strange in real use, but not with a dummy load. Maybe I'm the dummy?

73,

Herb

At 10:05 PM 1/11/2002 -0600, you wrote:
>Herb,
>
>I would find it interesting to do the same test into a known 50 ohm
>dummy load with just a 50 ohm transmission line.
>
>I'm using a 756ProII and have a MJF Tuner/SWR meter and the MJF antenna
>analyzer. I'll try a similar test this weekend and see what results I
>get.
>
>73,
>
>Brad K0TRL
>
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
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259. HXCC

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-13 19:58:48 UTC
From: wb6roh
Topic: 234 Message: 259

For those collecting contacts for HXCC, JR1NHD and WB6ROH expect to be on 28356 today 1/13/02 at 2230Z. We will QSY to other bands for ""band contacts" as conditions allow.

73 - Doug - WB6ROH

260. Physical dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-13 21:44:11 UTC
From: g4wfq
Topic: 260 Message: 260

Can someone tell me the physical dimensions of a 20M band Hexbeam?
Turning circle dimension doesn't really give me much idea to picture
the size. What are the dimensions length x width ?

Thanks in anticipation.

Dave G4WFQ

261. Re: [hex-beam] Physical dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-13 21:50:07 UTC
From: Brad Sumner
Topic: 260 Message: 261

You can get a pretty good idea from Mike T's article from Communications Quarterly which has been conveniently downloaded for us to the files section of hexbeam group on yahoogroups. The next to the last page has a "semi-scaled" drawing of a 20 Meter hex.

73
Brad--K0TRL

262. My Hex-Beam installation

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-14 01:50:28 UTC
From: ku7q
Topic: 262 Message: 262

Hello all,

I've posted some photo's of my installation. Look in the Photos section under the KU7Q album.

I used 30' of 1-1/4" rigid conduit for the mast, in a tilt-up configuration. The "foundation" is a cement post block (the kind used to anchor 4x4 deck posts). The entire assembly was easily pulled into place by two people, me pulling on the rope and the XYL guiding the mast into position. The house attachment was made with Uni-Strut & conduit clamps. I braced the top of the mast to the roof using 3/4" thin-wall conduit for struts. The last photo shows the street-side view. So far only one neighbor has noticed it :)

The nice thing about this configuration (besides costing less than $100) is that the whole thing can be brought to the ground for repair and maintenance. I only need to climb onto the roof to loosen the strut brackets.

73's, Lynn KU7Q

263. Many thanks

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-14 02:22:51 UTC
From: Meiselman
Topic: 263 Message: 263

Just a brief note to thank those who helped me escape from my "dummy load" situation. Special thanks to Eric (G0CGL) who provided very interesting comments. I understand the concept of different readings along a transmission line, but am still amazed at my results. The Kenwood meter, the MFJ tuner and the Diawa meter are connected in series, with only 3 feet of 50 ohm coax between the Kenwood and the MFJ tuner and another 3 feet between this tuner and the Diawa meter. Anyway, since I can't do anything about these SWR values...I will just relax and enjoy the antenna.

Also a "thank you" to those on the 28.356 net yesterday. Was great to put voices with names...maybe someday faces with voices?

73

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

264. Re: My Hex-Beam installation

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-14 02:49:10 UTC
From: wb6roh
Topic: 262 Message: 264

Great looking installation, Lynn! We now expect to hear your booming signal next Saturday. Remember that many of us are an E-mail away from a sked and HXCC contacts.

73 - Doug - WB6ROH

--- In hex-beam@y..., "ku7q" <ku7q@a...> wrote:
> Hello all,
>
> I've posted some photo's of my installation. Look in the Photos
> section under the KU7Q album.
>
> I used 30' of 1-1/4" rigid conduit for the mast, in a tilt-up
> configuration. The "foundation" is a cement post block (the kind
> used to anchor 4x4 deck posts). The entire assembly was easily
> pulled into place by two people, me pulling on the rope and the XYL
> guiding the mast into position. The house attachment was made with
> Uni-Strut & conduit clamps. I braced the top of the mast to the
roof
> using 3/4" thin-wall conduit for struts. The last photo shows the
> street-side view. So far only one neighbor has noticed it :)
>
> The nice thing about this configuration (besides costing less than
> $100) is that the whole thing can be brought to the ground for
repair
> and maintenance. I only need to climb onto the roof to loosen the
> strut brackets.
>
> 73's, Lynn KU7Q

265. Re: My Hex-Beam installation

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-14 05:46:25 UTC
From: w4wb
Topic: 262 Message: 265

Nice installation Lynn. I see that you just had to figure a way to get the Hex-Beam up to height before the snow went away! hi hi

So what have you noticed as the performance differences between it being at the lower height and the new height?

73 de Barry - W4WB

266. Re: My Hex-Beam installation

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-15 00:30:06 UTC
From: ku7q
Topic: 262 Message: 266

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Nice installation Lynn. I see that you just had to figure a way to
> get the Hex-Beam up to height before the snow went away! hi hi
>
> So what have you noticed as the performance differences between it
> being at the lower height and the new height?
>
> 73 de Barry - W4WB

Yes, I noticed that the snow was mostly gone from the roof and the temp was above freezing so I went for it (still a foot of snow on the ground).

Haven't had any time to give it a serious try yet! I missed the sked last Saturday because I was putting the antenna up, but I plan on being on this week.

BTW, the beam looks great on the MFJ antenna analyzer on all 5 bands, (below 1.7 SWR on all freqs). It even dips down to 1.8 SWR /55 ohms on 53 MHz and 1.7 SWR / 55 Ohms on 145.4 MHz! My LDG Z-11 tuner gets it on 40 and 30 mtrs too, and it shows some directivity on those bands as well. This seems to be a great antenna for someone like me that can only get away putting one antenna in the air.

73's, Lynn KU7Q

267. Use of MFJ analyzer

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-15 18:16:39 UTC
From: Herbert Meiselman
Topic: 267 Message: 267

I just read the email message from Lynn (KU7Q) in which he provides outstanding SWR values determined via a MFJ analyzer (model 259B I assume).

His values are so different from mine that I wonder where I have failed!? Of course, mine were measured at the end of 100 feet of 9913 flexible coax (Cable-Experts stuff), with 7 turns of coax on a 4.5 inch plastic core just below the rotor on a 4.5 foot Glen Martin tower. There were also 3-4 turns of the coax on the flow near the transmitter (just extra length of coax that I did not want to cut off right now). The MFJ analyzer was grounded, but only via the coax shield...I had a short piece of coax between the MFJ and an Alpha-Delta switch, with the 9913 connected to this switch. The switch body was connected via a separate wire directly to a ground.

Anyway, my MFJ values for SWR were

28.3 = 2.4
28.5 = 3.1
28.7 = 4.0
28.9 = 4.9

24.93 = 2.1
24.99 = 2.1

21.20 = 2.2
21.45 = 2.2

18.10 = 2.6
18.16 = 2.3

14.15 = 2.8
14.25 = 2.5
14.35 = 2.5

These MFJ readings do not agree with Lynn's. I do realize that the best way to measure the ANTENNA'S behavior is by using a short piece of coax, and that with 100 feet I am "seeing" both the antenna and the coax. Still, my MFJ analyzer numbers are so different from Lynn's (and from a Daiwa CN801 meter) that I am still puzzled. [more data than you could ever want in my 11 Jan, 2002 email to the group!]

Comments, answers, requests to shut up and go away, etc, etc?

73's

Herb k6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

268. Re: [hex-beam] Use of MFJ analyzer

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-15 18:24:28 UTC
From: Chris Adams
Topic: 267 Message: 268

I admit to being confused by some of the SWR readings folks are getting. Assuming a lossless line, SWR will not change regardless of where it is measured. Perhaps the measurement will change due to inaccuracies of the particular meter. If the line is "lossy" SWR should decrease with distance.

It is known that the wide band SWR meters are in general susceptible to strong external RF fields such as a local radio station, etc. It would be interesting to hook up a dummy load at the end of the 100 feet of 9913 and see what readings you get.

73

chris, n4vi

Herbert Meiselman wrote:

> I just read the email message from Lynn (KU7Q) in which he provides
> outstanding SWR values determined via a MFJ analyzer (model 259B I
> assume).
>
> His values are so different from mine that I wonder where I have
> failed!? Of course, mine were measured at the end of 100 feet of 9913
> flexible coax (Cable-Experts stuff), with 7 turns of coax on a 4.5 inch
> plastic core just below the rotor on a 4.5 foot Glen Martin tower. There
> were also 3-4 turns of the coax on the flow near the transmitter (just
> extra length of coax that I did not want to cut off right now). The MFJ
> analyzer was grounded, but only via the coax shield...I had a short piece
> of coax between the MFJ and an Alpha-Delta switch, with the 9913
> connected
> to this switch. The switch body was connected via a separate wire
> directly
> to a ground.
>
> Anyway, my MFJ values for SWR were
>
> 28.3 = 2.4
> 28.5 = 3.1
> 28.7 = 4.0
> 28.9 = 4.9
>
> 24.93 = 2.1
> 24.99 = 2.1
>
> 21.20 = 2.2
> 21.45 = 2.2

>
> 18.10 = 2.6
> 18.16 = 2.3
>
> 14.15 = 2.8
> 14.25 = 2.5
> 14.35 = 2.5
>
> These MFJ readings do not agree with Lynn's. I do realize that the best
> way to measure the ANTENNA'S behavior is by using a short piece of coax,
> and that with 100 feet I am "seeing" both the antenna and the coax.
> Still,
> my MFJ analyzer numbers are so different from Lynn's (and from a Daiwa
> CN801 meter) that I am still puzzled. [more data than you could ever
> want
> in my 11 Jan, 2002 email to the group!]
>
> Comments, answers, requests to shut up and go away, etc, etc?
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> 73's
>
> Herb k6HJM
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> Herbert J. Meiselman, ScD
> Professor and Vice-Chair
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[Non-text portions of this message have been removed]

269. Re: [hex-beam] Use of MFJ analyzer

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-15 19:39:51 UTC
From: Eric Carling
Topic: 267 Message: 269

The answers are in my email on the subject. For reference check out your own ARRL's books on the subject. We here in the Royal Signals section of our military service actually refer to them more often than our own manuals!

----- Original Message -----
From: Herbert Meiselman
To: hex-beam@yahoogroups.com
Sent: Tuesday, January 15, 2002 6:16 PM
Subject: [hex-beam] Use of MFJ analyzer

I just read the email message from Lynn (KU7Q) in which he provides outstanding SWR values determined via a MFJ analyzer (model 259B I assume).

His values are so different from mine that I wonder where I have failed!? Of course, mine were measured at the end of 100 feet of 9913 flexible coax (Cable-Experts stuff), with 7 turns of coax on a 4.5 inch plastic core just below the rotor on a 4.5 foot Glen Martin tower. There were also 3-4 turns of the coax on the flow near the transmitter (just extra length of coax that I did not want to cut off right now). The MFJ analyzer was grounded, but only via the coax shield...I had a short piece of coax between the MFJ and an Alpha-Delta switch, with the 9913 connected to this switch. The switch body was connected via a separate wire directly to a ground.

Anyway, my MFJ values for SWR were

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24.99 = 2.1

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These MFJ readings do not agree with Lynn's. I do realize that the best way to measure the ANTENNA'S behavior is by using a short piece of coax, and that with 100 feet I am "seeing" both the antenna and the coax. Still,

my MFJ analyzer numbers are so different from Lynn's (and from a Daiwa CN801 meter) that I am still puzzled. [more data than you could ever want in my 11 Jan, 2002 email to the group!]

Comments, answers, requests to shut up and go away, etc, etc?

73's

Herb k6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
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1333 San Pablo Street, MMR 626
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meiselma@...

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[Non-text portions of this message have been removed]

270. Re: [hex-beam] Use of MFJ analyzer

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-15 20:50:55 UTC
From: Chris Adams
Topic: 267 Message: 270

Eric,

You're original message contained the following statement:

> Depending on where in the wave you
> take the measurement will determine the SWR reading. In other words it
> will
> vary and in fact if you took enough measurements it would go up to a
> peak and
> drop again.
>

This is simply not true, if it was, SWR curves on a Smith chart would
not be a circle. I do agree this is a hexbeam reflector, so I am more
then glad to continue this discussion with you off line if you wish.

regards,

chris, n4vi

Eric Carling wrote:

> The answers are in my email on the subject. For reference check out
> your own ARRL's books on the subject. We here in the Royal Signals
> section of our military service actually refer to them more often than
> our own manuals!
>
> ----- Original Message -----
> From: Herbert Meiselman
> To: hex-beam@yahoogroups.com
> Sent: Tuesday, January 15, 2002 6:16 PM
> Subject: [hex-beam] Use of MFJ analyzer
>
>
> I just read the email message from Lynn (KU7Q) in which he provides
> outstanding SWR values determined via a MFJ analyzer (model 259B I
> assume).
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> His values are so different from mine that I wonder where I have
> failed!? Of course, mine were measured at the end of 100 feet of 9913
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> plastic core just below the rotor on a 4.5 foot Glen Martin tower.
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> Comments, answers, requests to shut up and go away, etc, etc?
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[Non-text portions of this message have been removed]

271. Re: [hex-beam] Use of MFJ analyzer

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-15 22:09:12 UTC
From: Eric Carling
Topic: 267 Message: 271

Hi Chris,

It is true, I think your own assumption is misleading you. Whilst you are quite correct, the assumption doesn't apply because of the losses that do exist and the fact that antenna is anything but a purely resistive load. Since I been teaching this theory to Army personnel for 20+ years I think I can say I'm qualified hi. No need to continue this further, it will only serve to confuse people more than they are.

By the way, we have a professional piece of kit to analyse our military arrays, it shows up the shortcomings in the MFJ quite remarkably.

Best wishes,

Eric.

----- Original Message -----
From: Chris Adams
To: hex-beam@yahoogroups.com ; eric.g0cgl@...
Sent: Tuesday, January 15, 2002 8:50 PM
Subject: Re: [hex-beam] Use of MFJ analyzer

Eric,

You're original message contained the following statement:

> Depending on where in the wave you
> take the measurement will determine the SWR reading. In other words it
> will
> vary and in fact if you took enough measurements it would go up to a
> peak and
> drop again.
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This is simply not true, if it was, SWR curves on a Smith chart would not be a circle. I do agree this is a hexbeam reflector, so I am more then glad to continue this discussion with you off line if you wish.

regards,

chris, n4vi

Eric Carling wrote:

> The answers are in my email on the subject. For reference check out
> your own ARRL's books on the subject. We here in the Royal Signals
> section of our military service actually refer to them more often than
> our own manuals!
>

> ----- Original Message -----
> From: Herbert Meiselman
> To: hex-beam@yahoogroups.com
> Sent: Tuesday, January 15, 2002 6:16 PM
> Subject: [hex-beam] Use of MFJ analyzer
>
>
> I just read the email message from Lynn (KU7Q) in which he provides
> outstanding SWR values determined via a MFJ analyzer (model 259B I
> assume).
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272. Re: Use of MFJ analyzer

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-16 00:32:45 UTC
From: tomac14
Topic: 267 Message: 272

Hi Eric and Chris:

I think perhaps one of you is talking about Standing Wave "Voltage" and the other is talking about Standing Wave "Ratio".

Tom, N0YD "Yankee Doodle"

--- In hex-beam@y..., "Eric Carling" <eric.g0cgl@z...> wrote:
> Hi Chris,
>
> It is true, I think your own assumption is misleading you. Whilst you are quite correct, the assumption doesn't apply because of the losses that do exist and the fact that antenna is anything but a purely resistive load. Since I been teaching this theory to Army personnel for 20+ years I think I can say I'm qualified hi. No need to continue this further, it will only serve to confuse people more than they are.
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> By the way, we have a professional piece of kit to analyse our military arrays, it shows up the shortcomings in the MFJ quite remarkably.
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> Best wishes,
>
> Eric.
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> ----- Original Message -----
> From: Chris Adams
> To: hex-beam@y... ; eric.g0cgl@z...
> Sent: Tuesday, January 15, 2002 8:50 PM
> Subject: Re: [hex-beam] Use of MFJ analyzer
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> Eric,
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> You're original message contained the following statement:
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> > Depending on where in the wave you
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> Eric Carling wrote:
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> > The answers are in my email on the subject. For reference check
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> > section of our military service actually refer to them more
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> > our own manuals!
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> > ----- Original Message -----
> > From: Herbert Meiselman
> > To: hex-beam@y...
> > Sent: Tuesday, January 15, 2002 6:16 PM
> > Subject: [hex-beam] Use of MFJ analyzer
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> >
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> > Comments, answers, requests to shut up and go away, etc, etc?
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273. SWR or VSWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-16 01:52:27 UTC
From: w4wb
Topic: 273 Message: 273

FWIW, it is just fine to discuss SWR, feedlines, RFI, or whatever as long as it is reasonably related to antennas (hopefully the HEX-BEAM).

If you really want to learn more than you might like to about this subject, get a copy of "Reflections II" by W2DU (see http://home.iag.net/~w2du/). It has just been released and may be in a ham store near you.

73 de Barry - W4WB
HEX-BEAM Group Moderator

274. Re: [hex-beam] SWR or VSWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-16 03:06:28 UTC
From: Reginald Mackey
Topic: 273 Message: 274

AntenneX has excellent articles on swr as well

----- Original Message -----
From: "w4wb" <w4wb@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, January 15, 2002 5:52 PM
Subject: [hex-beam] SWR or VSWR

> FWIW, it is just fine to discuss SWR, feedlines, RFI, or whatever as
> long as it is reasonably related to antennas (hopefully the HEX-BEAM).
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> If you really want to learn more than you might like to about this
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> http://home.iag.net/~w2du/). It has just been released and may be in
> a ham store near you.
>
> 73 de Barry - W4WB
> HEX-BEAM Group Moderator
>
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>

275. 6 Meter Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-16 05:12:43 UTC
From: AB4WL
Topic: 275 Message: 275

I will operate as a rover station this weekend during the ARRL January VHF Sweepstakes using a 6 meter Hex Beam. I plan to operate from EM52, EM53, EM62, EM63, EM64, EM72, EM73, and EM74. 73, Ken AB4WL

276. Loss in Operating the HX-5B on 30 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-17 14:15:04 UTC
From: w4wb
Topic: 276 Message: 276

I decided to compute the total line loss for my particular HX-5B when used on 30 m since John W0LHU in MO had said my 30-m signal was so strong at 100 W.

I did the calculation for total line loss at 10 MHz, 60 feet of RG-213, and SWR = 10 (R=7 & X=32). It worked out to be 1.7 dB. The coax contributes 0.4 dB so the loss due to the SWR is just 1.3 dB. Quite acceptable.

The SWR on 40 m is even higher (around 25 as I recall at 7050 kHz), but the coax loss drops to about 1/4 dB. The total line loss is then around 2.5 dB (most due to SWR). Still very usable.

The impedance on both bands is still within the range for my FT-1000MP tuner so it happily matched.

I still ponder the observed directivity and F/B on both bands. On each band, there was no reversal in roles of the driven and reflector elements, i.e., beam direction was the same as for the designed bands.

73 de Barry - W4WB

277. Re: [hex-beam] Loss in Operating the HX-5B on 30 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-17 16:39:33 UTC
From: Brad Sumner
Topic: 276 Message: 277

I guess I have missed a comment somewhere. Has anyone observed or predicted a directivity reversal on some band?

Brad K0TRL

278. Re: Loss in Operating the HX-5B on 30 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-17 16:51:39 UTC
From: w4wb
Topic: 276 Message: 278

It was a question asked someone asked. There are multiband beams that do have a reversal as part of their design. I still find it astounding that the HB seems to have gain and F/B on 30 and 40 m. But I'll take it!

Barry - W4WB

--- In hex-beam@y..., Brad Sumner <bsumner@s...> wrote:
> I guess I have missed a comment somewhere. Has anyone observed or
> predicted a directivity reversal on some band?
>
> Brad K0TRL

279. Re: [hex-beam] Re: Loss in Operating the HX-5B on 30 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-17 18:21:26 UTC
From: Chris Adams
Topic: 276 Message: 279

Barry,

It is possible that you have f/b but not necessarily gain (as in gain over a dipole). Nevertheless, even f/b is good if it is a fairly efficient radiator which appears to be the case. It's always good to have another option in one's array of antennas.

73

chris, n4vi

w4wb wrote:

> It was a question asked someone asked. There are multiband beams
> that do have a reversal as part of their design. I still find it
> astounding that the HB seems to have gain and F/B on 30 and 40 m.
> But I'll take it!
>
> Barry - W4WB
>
>
> --- In hex-beam@y..., Brad Sumner <bsumner@s...> wrote:
> > I guess I have missed a comment somewhere. Has anyone observed or
> > predicted a directivity reversal on some band?
> >
> > Brad K0TRL
>
>
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>
>
>
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> <http://docs.yahoo.com/info/terms/> .

280. Re: Loss in Operating the HX-5B on 30 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-18 00:27:13 UTC
From: w4wb
Topic: 276 Message: 280

Hi Chris,

Good point, but in my initial playing with the HB on 30 m, I observed that it behaved like a beam in that it exhibited directivity in a single direction, had a reasonable F/B, and that the F/S was consistent with "normal" performance. By "normal," I mean that the signal decreased as the beam rotated and even had a good little null (ish) region. At no time did the signal remotely approach the signal level of that when the beam was directed towards the other station.

Since the total line loss appears reasonably small and the power has to go somewhere, it must be concentrated in the forward direction. This would imply gain I suggest. How much? Beats me.

Perhaps I can test it against a 30 m dipole sometime, but that will be a month or two at least. As you said, it is good to have another antenna option. I'm certain that this is nowhere near the performance of the full-size 30-m Hex-Beam. Hmmmm.... perhaps Mike has a 30 m HB up in the air and can compare at his QTH.

Next check will be on 6 m. Lynn KU7Q found the SWR on his HX-5B was about 2.5 on 6m. Given 60' of RG-213, this implies about 1.5 dB loss. I may just try it some on the 6-m contest this weekend. Who knows?

73 de Barry - W4WB

--- In hex-beam@y..., "Chris Adams" <n4vi@a...> wrote:
> Barry,
>
> It is possible that you have f/b but not necessarily gain (as in gain over a dipole). Nevertheless, even f/b is good if it is a fairly efficient radiator which appears to be the case. It's always good to have another option in one's array of antennas.
>
> 73
>
> chris, n4vi
>

281. Re: [hex-beam] Re: Loss in Operating the HX-5B on 30 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-18 01:44:29 UTC
From: Hisashi T Fujinaka
Topic: 276 Message: 281

You're thinking in two dimensions. It's probably radiating mostly up, and less than a dipole in the desired direction.

On Fri, 18 Jan 2002, w4wb wrote:

> Hi Chris,
>
> Good point, but in my initial playing with the HB on 30 m, I observed
> that it behaved like a beam in that it exhibited directivity in a
> single direction, had a reasonable F/B, and that the F/S was
> consistent with "normal" performance. By "normal," I mean that the
> signal decreased as the beam rotated and even had a good little null
> (ish) region. At no time did the signal remotely approach the signal
> level of that when the beam was directed towards the other station.
>
> Since the total line loss appears reasonably small and the power has
> to go somewhere, it must be concentrated in the forward direction.
> This would imply gain I suggest. How much? Beats me.
>
> Perhaps I can test it against a 30 m dipole sometime, but that will
> be a month or two at least. As you said, it is good to have another
> antenna option. I'm certain that this is nowhere near the
> performance of the full-size 30-m Hex-Beam. Hmmmm.... perhaps Mike
> has a 30 m HB up in the air and can compare at his QTH.
>
> Next check will be on 6 m. Lynn KU7Q found the SWR on his HX-5B was
> about 2.5 on 6m. Given 60' of RG-213, this implies about 1.5 dB
> loss. I may just try it some on the 6-m contest this weekend. Who
> knows?
>
> 73 de Barry - W4WB
>
>
>
> --- In hex-beam@y..., "Chris Adams" <n4vi@a...> wrote:
> > Barry,
> >
> > It is possible that you have f/b but not necessarily gain (as in
> gain over a dipole). Nevertheless, even f/b is good if it is a
> fairly efficient radiator which appears to be the case. It's always
> good to have another option in one's array of antennas.
> >
> > 73
> >
> > chris, n4vi

> >
>
>
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>

--
Hisashi T Fujinaka - htodd@...
BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte

282. Re: [hex-beam] Re: Loss in Operating the HX-5B on 30 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-18 02:52:37 UTC
From: Chris Blakely
Topic: 276 Message: 282

Hi Barry,

I highly recommend using the HB on 6 mtrs. I have used it with my
IC-756 ProII and its internal tunner to work from Washington state to Europe
with no problems. nice to have a band I didn't plan on when I bought the
antenna.

73 & GL
Chris, AB1R

----- Original Message -----
From: "w4wb" <w4wb@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, January 17, 2002 19:27 PM
Subject: [hex-beam] Re: Loss in Operating the HX-5B on 30 m

> Hi Chris,
>
> Good point, but in my initial playing with the HB on 30 m, I observed
> that it behaved like a beam in that it exhibited directivity in a
> single direction, had a reasonable F/B, and that the F/S was
> consistent with "normal" performance. By "normal," I mean that the
> signal decreased as the beam rotated and even had a good little null
> (ish) region. At no time did the signal remotely approach the signal
> level of that when the beam was directed towards the other station.
>
> Since the total line loss appears reasonably small and the power has
> to go somewhere, it must be concentrated in the forward direction.
> This would imply gain I suggest. How much? Beats me.
>
> Perhaps I can test it against a 30 m dipole sometime, but that will
> be a month or two at least. As you said, it is good to have another
> antenna option. I'm certain that this is nowhere near the
> performance of the full-size 30-m Hex-Beam. Hmmmm.... perhaps Mike
> has a 30 m HB up in the air and can compare at his QTH.
>
> Next check will be on 6 m. Lynn KU7Q found the SWR on his HX-5B was
> about 2.5 on 6m. Given 60' of RG-213, this implies about 1.5 dB
> loss. I may just try it some on the 6-m contest this weekend. Who
> knows?
>
> 73 de Barry - W4WB
>
>
>
> --- In hex-beam@y..., "Chris Adams" <n4vi@a...> wrote:

> > Barry,
> >
> > It is possible that you have f/b but not necessarily gain (as in
> gain over a dipole). Nevertheless, even f/b is good if it is a
> fairly efficient radiator which appears to be the case. It's always
> good to have another option in one's array of antennas.
> >
> > 73
> >
> > chris, n4vi
> >
>
>
>
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>
>

283. Re: Loss in Operating the HX-5B on 30 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-18 04:49:37 UTC
From: w4wb
Topic: 276 Message: 283

What is your basis for this comment please? FWIW, noise is low and hearing is good.

Tnx,
Barry - W4WB

--- In hex-beam@y..., Hisashi T Fujinaka <htodd@t...> wrote:
>
> You're thinking in two dimensions. It's probably radiating mostly up, and less than a dipole in the desired direction.
>
> Hisashi T Fujinaka - htodd@t...
> BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte

284. Re: [hex-beam] Re: Loss in Operating the HX-5B on 30 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-18 05:38:07 UTC
From: Hisashi T Fujinaka
Topic: 276 Message: 284

My basis is just modelling lots of weird antennas at off frequencies. Lots of normal antennas, too. Most of the time antennas radiate somewhere, and not where you want them to.

On Fri, 18 Jan 2002, w4wb wrote:

> What is your basis for this comment please? FWIW, noise is low and
> hearing is good.
>
> Tnx,
> Barry - W4WB
>
>
> --- In hex-beam@y..., Hisashi T Fujinaka <htodd@t...> wrote:
> >
> > You're thinking in two dimensions. It's probably radiating mostly
> up, and less than a dipole in the desired direction.
> >
> > Hisashi T Fujinaka - htodd@t...
> > BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
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>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

--
Hisashi T Fujinaka - htodd@...
BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte

285. Operating the HX-5B on 6 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-18 20:11:36 UTC
From: w4wb
Topic: 276 Message: 285

Hi Chris,
Well I tried 6 m this morning and worked a fellow a few hundred miles away with a good report. Band was just closing down he said. Maybe tomorrow will be better. I did notice that the HX-5B still acted like a beam, but never had a stable signal to make a performance guessimate from.

I was using a FT-847 and FC-20 tuner. The tuner happily tuned up on 6 m and I had 100 W output from the 847. FWIW, the FC-20 matched up on both 30 and 40 m too.

Even if the HX-5B is not fantastic on 6, 30, and 40 m, the simple fact that I can work those bands at all is great since I don't have antennas for these bands at the operating QTH.

Good show on your contacts!

73 de Barry - W4WB

--- In hex-beam@y..., "Chris Blakely" <chris.blakely@v...> wrote:
> Hi Barry,
>
> I highly recommend using the HB on 6 mtrs. I have used it with my IC-756 ProII and its internal tunner to work from Washington state to Europe with no problems. nice to have a band I didn't plan on when I bought the antenna.
>
> 73 & GL
> Chris, AB1R
>

286. Re: Loss in Operating the HX-5B on 30 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-18 20:16:33 UTC
From: w4wb
Topic: 276 Message: 286

OK, tnx. So far, I haven't seen a model of the Hex-Beam presented that has proper fidelity with respect to reality. Perhaps a bit more experimental playing by various folks will get a handle on how well the antenna is radiating off frequency.

73 de Barry - W4WB

--- In hex-beam@y..., Hisashi T Fujinaka <htodd@t...> wrote:
> My basis is just modelling lots of weird antennas at off frequencies. Lots of normal antennas, too. Most of the time antennas radiate somewhere, and not where you want them to.

> Hisashi T Fujinaka - htodd@t...

287. Hex-Beam veteran new to group

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-19 23:56:57 UTC
From: ad1y1
Topic: 287 Message: 287

Hi all.

Great talking with Doug at K6AA, Buzz (N5FTR) and Brad (K0TRL) on the Hex-Beam net this evening. Looking forward to my being more punctual in the future!

As just about every Hex-Beam owner I've spoken to has affirmed, the antenna has been quite a decent performer since I put it up. I started with the 3-band version (20, 17, 12 meters) back in Oct./Nov. of 1997, and put up the 5-bander (serial #4) in Aug. of 1998.

I won't bore anyone with country totals (unless you really insist!) but the antenna's performance has been rather remarkable.

Originally the antennas were on a 36 foot push up pole by Radio Shack, but a few months ago I put the beam up to about 45 feet on a military surplus crankup tower. I'm planning on getting it to 75 feet when weather permits, and I'll post the findings as to the effect on performance of the added height.

(By the way, if anyone knows who has "ad1y" on Yahoo!, please let them know I'd like to have that ID!)

73,

Tony, AD1Y

288. Woops!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-20 00:13:07 UTC
From: Meiselman
Topic: 288 Message: 288

OK..so I forgot! Actually, I was out with relatives from the Palo Alto area...driving them to Malibu, eating good seafood, etc.

The Hex-Beam continues to work well, although I still worry (a bit) about its performance on 10 meters. Sometimes (like today), I receive a DX at a honest 59, but am unable to work the contact...and not because of a pileup. Since the 10 meter wires are closest to the top of my tower, I wonder if this could be a factor? The Hex-Beam base plate is only 6 inches above the top of my 4.5 foot Glen Martin tower...the tower is on the roof so the base plate is about 28 feet above true ground.

Hope to remember next week!

73s,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

289. Re: Hex-Beam veteran new to group

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-20 01:21:15 UTC
From: w4wb
Topic: 287 Message: 289

Welcome Tony. Please bore us with your country totals! The results
of your DXing effort are impressive to say the least.
73 de Barry - W4WB

--- In hex-beam@y..., "ad1y1" <ad1y@t...> wrote:
<snip>
> I won't bore anyone with country totals (unless you really insist!)
> but the antenna's performance has been rather remarkable.
<snip>
> 73,
> Tony, AD1Y

290. Re: Hex-Beam veteran new to group

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-20 02:05:07 UTC
From: ad1y1
Topic: 287 Message: 290

Thanks Barry.

I started in the hobby in Jan. of 1997. I've expressed to Mike on numerous occasions that the Hex-Beam made possible an accomplishment of which I'm fairly proud: in less than 3 years as a ham (Jan. '97 to Dec. '99) I put more than 300 (301 to be precise) entities in the log.

Having just "celebrated" 5 years in the hobby, the current totals are 318 worked/314 confirmed so far. (S. Sandwich went in the log on 2 bands yesterday with 1 call on each band.) I'm happy to say that the ever-popular P5 is among that total, having been worked last month on 10 meters.

The fact that Mike makes an antenna that can produce results like that while capable of being supported by a $65 push-pole and turned with a $69 rotator is rather remarkable to me.

I've since put it up on a crankup tower simply because it's physically easier for me to take it up or down, and because I'm interested to see what added height may do for it.

Anyway, I know bragging gets boring pretty quickly, but I think it may constitute pretty good testimony as to what the Hex-Beam is capable of doing.

73,

Tony, AD1Y

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Welcome Tony. Please bore us with your country totals! The
results
> of your DXing effort are impressive to say the least.
> 73 de Barry - W4WB
>
> --- In hex-beam@y..., "ad1y1" <ad1y@t...> wrote:
> <snip>
> > I won't bore anyone with country totals (unless you really
insist!)
> > but the antenna's performance has been rather remarkable.
> <snip>
> > 73,
> > Tony, AD1Y

291. Re: Woops!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-20 04:01:02 UTC
From: wb6roh
Topic: 288 Message: 291

Herb,

Given that your SWR readings are a little higher than some others, I would suspect that there is metal in some form reasonably close to the antenna. I would not suspect the tower stucture. Do you have parapet walls around or near the flat section on which you put the support? If so, are these stucco over expanded metal or "chicken wire?" Do you have any metallic materials in the roof supports? Do you have appreciable electrical wiring or any type of conduits in the rafters under the antenna? Do you have metal guttering? Any of the above can affect the take off angle and the VSWR. You gave us SWR readings some time back. Did you also record the R and X values. These may be of value in comparing with other users' installations and results.

73 - Doug - WB6ROH

--- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> OK..so I forgot! Actually, I was out with relatives from the Palo
Alto
> area...driving them to Malibu, eating good seafood, etc.
>
> The Hex-Beam continues to work well, although I still worry (a bit)
about
> its performance on 10 meters. Sometimes (like today), I receive a
DX at a
> honest 59, but am unable to work the contact...and not because of a
> pileup. Since the 10 meter wires are closest to the top of my
tower, I
> wonder if this could be a factor? The Hex-Beam base plate is only
6 inches
> above the top of my 4.5 foot Glen Martin tower...the tower is on
the roof
> so the base plate is about 28 feet above true ground.
>
> Hope to remember next week!
>
> 73s,
>
> Herb K6HJM
>
>
> Herbert J. Meiselman, ScD
> Professor and Vice-Chair
> Dept. Physiology and Biophysics
> Keck School of Medicine

> 1333 San Pablo Street
> Los Angeles, CA 90033
> 323-442-1268
> 323-442-2283 (FAX)
> meiselma@u...

292. 40M Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-20 04:05:30 UTC
From: ve3akt
Topic: 292 Message: 292

I have installed the HX-5BI and have had excellent results.

I am debating whether or not to purchase the 40M Hex-Beam.

I would appreciate any user comments on this antenna.

Also if someone has installed the 40M with the 5 bander together, how did you do it?

73,

Jules VE3AKT

293. Re: [hex-beam] Re: Hex-Beam veteran new to group

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-20 04:15:45 UTC
From: David Douglass
Topic: 287 Message: 293

Tony,

That's very good going DX wise. As you didn't mention it, I assume this is without the aid of a linear?? Would this be correct.

Regards

David, VK2DPD
----- Original Message -----
From: ad1y1
To: hex-beam@yahoogroups.com
Sent: Sunday, January 20, 2002 2:05 AM
Subject: [hex-beam] Re: Hex-Beam veteran new to group

Thanks Barry.

I started in the hobby in Jan. of 1997. I've expressed to Mike on numerous occasions that the Hex-Beam made possible an accomplishment of which I'm fairly proud: in less than 3 years as a ham (Jan. '97 to Dec. '99) I put more than 300 (301 to be precise) entities in the log.

Having just "celebrated" 5 years in the hobby, the current totals are 318 worked/314 confirmed so far. (S. Sandwich went in the log on 2 bands yesterday with 1 call on each band.) I'm happy to say that the ever-popular P5 is among that total, having been worked last month on 10 meters.

The fact that Mike makes an antenna that can produce results like that while capable of being supported by a $65 push-pole and turned with a $69 rotator is rather remarkable to me.

I've since put it up on a crankup tower simply because it's physically easier for me to take it up or down, and because I'm interested to see what added height may do for it.

Anyway, I know bragging gets boring pretty quickly, but I think it may constitute pretty good testimony as to what the Hex-Beam is capable of doing.

73,

Tony, AD1Y

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Welcome Tony. Please bore us with your country totals! The results
> of your DXing effort are impressive to say the least.

> 73 de Barry - W4WB
>
> --- In hex-beam@y..., "ad1y1" <ad1y@t...> wrote:
> <snip>
> > I won't bore anyone with country totals (unless you really
insist!)
> > but the antenna's performance has been rather remarkable.
> <snip>
> > 73,
> > Tony, AD1Y

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[Non-text portions of this message have been removed]

294. Re: Hex-Beam veteran new to group

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-20 12:41:24 UTC
From: ad1y1
Topic: 287 Message: 294

David,

Actually I do use an amplifier (legal limit when necessary) when the
pileup is howling.

However, much DX has been worked running barefoot. In fact I have
often been pleasantly surprised by the fact that I have worked a
station through a pileup while waiting for the amplifier to warm up.

73,

Tony, AD1Y

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Tony,
>
> That's very good going DX wise. As you didn't mention it, I assume
this is without the aid of a linear?? Would this be correct.
>
> Regards
>
> David, VK2DPD
> ----- Original Message -----
> From: ad1y1
> To: hex-beam@y...
> Sent: Sunday, January 20, 2002 2:05 AM
> Subject: [hex-beam] Re: Hex-Beam veteran new to group
>
>
> Thanks Barry.
>
> I started in the hobby in Jan. of 1997. I've expressed to Mike
on
> numerous occasions that the Hex-Beam made possible an
accomplishment
> of which I'm fairly proud: in less than 3 years as a ham
(Jan. '97
> to Dec. '99) I put more than 300 (301 to be precise) entities in
the
> log.
>
> Having just "celebrated" 5 years in the hobby, the current totals
are
> 318 worked/314 confirmed so far. (S. Sandwich went in the log on
2
> bands yesterday with 1 call on each band.) I'm happy to say that

the
> ever-popular P5 is among that total, having been worked last
month on
> 10 meters.
>
> The fact that Mike makes an antenna that can produce results like
> that while capable of being supported by a $65 push-pole and
turned
> with a $69 rotator is rather remarkable to me.
>
> I've since put it up on a crankup tower simply because it's
> physically easier for me to take it up or down, and because I'm
> interested to see what added height may do for it.
>
> Anyway, I know bragging gets boring pretty quickly, but I think
it
> may constitute pretty good testimony as to what the Hex-Beam is
> capable of doing.
>
> 73,
>
> Tony, AD1Y
>
>
>
> --- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> > Welcome Tony. Please bore us with your country totals! The
> results
> > of your DXing effort are impressive to say the least.
> > 73 de Barry - W4WB
> >
> > --- In hex-beam@y..., "ad1y1" <ad1y@t...> wrote:
> > <snip>
> > > I won't bore anyone with country totals (unless you really
> insist!)
> > > but the antenna's performance has been rather remarkable.
> > <snip>
> > > 73,
> > > Tony, AD1Y
>
>
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>
> [Non-text portions of this message have been removed]

295. Homebrew DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-21 11:34:41 UTC
From: David Douglass
Topic: 295 Message: 295

Hi All,

Managed to work my second new country with the homebrew hex tonight (VP8THU). Not bad going for my pieces of wood and a mere 50watts, especially as the South Atlantic is pretty tricky from here. Goes to show that one can be homebrewed, and even work!!

Regards

David, VK2DPD
vk2dpd@...
vk2dpd@...

296. An interesting rotor controller....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-22 17:02:50 UTC
From: Floyd Sense
Topic: 296 Message: 296

I took Mike Traffie's original suggestion and bought a Channel Master 9515 rotor to turn my HX-5B hexbeam. It's a beefed up rotor with a braking mechanism and has spun the hexbeam for 18 months with no problems. I just learned of a neat new addition for that rotor, that also works with other Channel Master rotors and some Radio Shack models. It's the model 9537 infrared remote controller, which replaces the original rotor control with a new unit and it includes a remote control, similar to one for a TV or stereo. According to the information I've found, you can program in fixed compass settings for easy setting of the direction. It's not clear whether the new control unit is silent, or if it has a motor like the old one. If there's any interest, I'll fill in the details when mine arrives.

I found what I think is the best price on this new unit, $39.95, from Warren Electronics in Illinois. Here's a link to their page with the info if you're interested. Note that the model 9521 rotor, which includes this new remote, is also on sale.
http://www.warrenelectronics.com/antennas/rotors.htm

K8AC
Floyd Sense - Angier, NC

297. Re: An interesting rotor controller....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-23 00:25:08 UTC
From: w4wb
Topic: 296 Message: 297

Thanks Floyd, this makes Sense! (sorry, :-)) The prices are great.
AES sold the 9515 for $100 when I got mine. I am ordering the uprade
tonight an maybe the entire rotor package too for my 6-m HB.

73 de Barry - W4WB

--- In hex-beam@y..., "Floyd Sense" <k8ac@a...> wrote:
<snip>
It's the model 9537 infrared remote controller, which replaces the
original rotor control with a new unit and it includes a remote
control, similar to one for a TV or stereo. <Snip>
http://www.warrenelectronics.com/antennas/rotors.htm
>
> K8AC
> Floyd Sense - Angier, NC

298. Re: An interesting rotor controller....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-23 02:55:18 UTC
From: w4wb
Topic: 296 Message: 298

I have added this link in the Bookmarks section in the Accessories Folder. Tnx agn Floyd for some good input.
73 de Barry - W4WB

299. Hex beam and Glen Martin Hazer???

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-23 04:01:33 UTC
From: Michael Melland
Topic: 299 Message: 299

Here is the dumb question of the day. I've not yet received my hexbeam. In fact I've never seen one but on the pics posted here. I assume the outer elements or cables are all around the circumference of the beam. So... I assume using a Glen Martin tower and hazer is out... no where to park the beam so the cables won't be in the way to lower or raise the beam ... is that correct ??

Mike
--
Michael Melland, W9WIS
Winneconne, Wisconsin USA EN54pc
qrp-l #1656 - qrparci # 9875 - iparc #252
ars #1075 - http://www.qsl.net/w9wis

300. Re: Hex beam and Glen Martin Hazer???

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-23 04:04:06 UTC
From: wb6roh
Topic: 299 Message: 300

You have 60 degrees between arms to play with. If your hazer is dressed out sufficiently, I would think you could make a go of it.

WB6ROH - Doug

--- In hex-beam@y..., "Michael Melland" <w9wis@a...> wrote:
> Here is the dumb question of the day. I've not yet received my hexbeam. In
> fact I've never seen one but on the pics posted here. I assume the outer
> elements or cables are all around the circumference of the beam. So... I
> assume using a Glen Martin tower and hazer is out... no where to park the
> beam so the cables won't be in the way to lower or raise the beam ... is
> that correct ??
>
> Mike
> --
> Michael Melland, W9WIS
> Winneconne, Wisconsin USA EN54pc
> qrp-l #1656 - qrparci # 9875 - iparc #252
> ars #1075 - http://www.qsl.net/w9wis

301. Re: [hex-beam] Re: Hex beam and Glen Martin Hazer???

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-23 04:10:46 UTC
From: Michael Melland
Topic: 299 Message: 301

> You have 60 degrees between arms to play with.

So there isn't wire all the way around between the arms ? I know I can park a yagi to the side between elements and lower away.... I thought it looked like the hex wire elements were all around the circumferance of the antenna and figured they would interfere with the tower if lowered/raised.

Mike

302. Re: Hex beam and Glen Martin Hazer???

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-23 04:17:31 UTC
From: wb6roh
Topic: 299 Message: 302

Between two opposing 60 degree segments there are Phillystan tension lines. If you assemble the Hex onto the hazer fully lowered, you may be able to handle it.

Doug

--- In hex-beam@y..., "Michael Melland" <w9wis@a...> wrote:
> > You have 60 degrees between arms to play with.
>
> So there isn't wire all the way around between the arms ? I know I can park
> a yagi to the side between elements and lower away.... I thought it looked
> like the hex wire elements were all around the circumferance of the antenna
> and figured they would interfere with the tower if lowered/raised.
>
> Mike

303. DX spot

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-23 04:36:15 UTC
From: wb6roh
Topic: 303 Message: 303

Marty, DU1/AL7JF, is on 21.280 with a HX-5Bi as this is written.

Doug - WB6ROH

304. One more HXCC tonight

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-24 12:36:26 UTC
From: Makoto Tanaka
Topic: 304 Message: 304

Hi,

I have worked VP2DPD on 15 meters RTTY tonight. David was 599 from Hexbeam. He told me he will come up on the next coming weekend with a special prefix AX instead of VK. So everyone will have a chance to get a HXCC as well as WPX.

Thanks David for nice armchair QSO.

73 de JR1NHD Shin

[Non-text portions of this message have been removed]

305. Re: One more HXCC tonight

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-24 12:49:27 UTC
From: w4wb
Topic: 304 Message: 305

--- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
> Hi,
>
> I have worked VP2DPD on 15 meters RTTY tonight. David was 599 from
> Hexbeam. He told me he will come up on the next coming weekend with
> a special prefix AX instead of VK. So everyone will have a chance
> to get a HXCC as well as WPX.
>
> Thanks David for nice armchair QSO.
>
> 73 de JR1NHD Shin

Hi Shin,

Way to go guys! Hope we can all work David on Saturday. If 10 m is
not so good, we may try the other frequencies (+/-) listed on the
Home page for this site. BTW, you meant VK2DPD I should think. ;-)

73 de Barry - W4WB

306. Re: [hex-beam] One more HXCC tonight

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-24 12:50:46 UTC
From: David Douglass
Topic: 304 Message: 306

Shin,

It was a pleasure even if I didn't know which way my beam was pointing.

David, VK2DPD (M0DPD)
----- Original Message -----
From: Makoto Tanaka
To: hex-beam@yahoogroups.com
Sent: Thursday, January 24, 2002 12:36 PM
Subject: [hex-beam] One more HXCC tonight

Hi,

I have worked VP2DPD on 15 meters RTTY tonight. David was 599 from Hexbeam.
He told me he will come up on the next coming weekend with a special prefix
AX instead of VK. So everyone will have a chance to get a HXCC as well as
WPX.

Thanks David for nice armchair QSO.

73 de JR1NHD Shin

[Non-text portions of this message have been removed]

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hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

307. More DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-24 12:55:50 UTC
From: w4wb
Topic: 307 Message: 307

Yesterday, I worked a HK0-S and a ZD9 requiring one call and two calls, respectively. The ZD9 had quite a pile up going on 20 m. One of my friends running 500 W and a A3S called till he was blue in the face (his words) and never got him. Surely the Hex-Beam had nothing to do with my success in making that Q! hi hi

73 de Barry - W4WB

308. VP8THU

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-24 18:26:06 UTC
From: ik6zer
Topic: 308 Message: 308

Anyone worked VP8THU?
How many calls and watt?
73'Fabio

309. Re: An interesting rotor controller....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-24 20:21:39 UTC
From: ku7q
Topic: 296 Message: 309

--- In hex-beam@y..., "Floyd Sense" <k8ac@a...> wrote:
> stereo. According to the information I've found, you can program in fixed
> compass settings for easy setting of the direction. It's not clear whether
> the new control unit is silent, or if it has a motor like the old one. If
> there's any interest, I'll fill in the details when mine arrives.

Floyd,

I have the 9521A rotor with the IR controller. The controller is quiet and very easy to use. You have the option to recalibrate it automatically every 10 operations or on demand (it moves fully North the returns to the original setting). The IR controller is also a nice unit, my controller sits up on a shelf away from the op position. The only complaint I have with the unit is that it powers down after a minute or so of inactivity so you have to click a button on the IR control to wake it back up if you can't remember where you left it. Overall, I'm happy with the unit.

73's,
Lynn, KU7Q

310. Re: VP8THU

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-24 20:28:52 UTC
From: wb6roh
Topic: 308 Message: 310

One call on 17 meters with 100 watts from the HX-5Bi at 30' AGL near
Los Angeles.....

Doug - WB6ROH

--- In hex-beam@y..., "ik6zer" <fmorenz@t...> wrote:
> Anyone worked VP8THU?
> How many calls and watt?
> 73'Fabio

311. Re: [hex-beam] Re: VP8THU

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-24 21:18:01 UTC
From: Robert Gerard
Topic: 308 Message: 311

With my trusty Hex, I've worked him on 20, 17, 15 and 10. Still looking for 12. Bob, K2WY(ex-K2SGO)

312. Rotator controllers, Portaple masts, and HXP

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-24 22:23:31 UTC
From: Doug Faunt N6TQS +1-510-655-8604
Topic: 312 Message: 312

Hmm, That IR controlled rotator controller has been around for a number of years. I've had one for at least ten years.

Unfortunately, it's not clear that the new rotator motor (9521?) is as sturdy as the 9515, and I gave my old one away.

Does anyone else out there have the HXP and mast? I'm taking mine on a couple of trips this year, and have had the antenna set up for 20M on the roof for a few months. It was fixed north from here, and does make a difference compared to my R7 vertical in the favored direction. I clamped it conventionally, and the bottom of the antenna is slightly distorted, making it tight to adjust for travel.

In case you're wondering, the mast that Traffie sells seems to be the Portaple that's normally sold as a 26' unit for $200., with an extra smaller diameter piece to extend it to 30' and a coupler to the HXP antenna. It can be packed easily as two pieces 5' long. I'm going to get a ski case for the mast and antenna kit (as well as some cot and tent parts) for airline travel as checked baggage.

If you could locate a source of the spring-loaded parts, you could save a bit of money on a portable mast (or even build your own from aluminum tubing). Does anyone know what their nomenclature is, or a source?

73, doug

313. Hex-Beam vs. "Full-Size" Yagi

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-25 18:33:22 UTC
From: Barry Baker
Topic: 313 Message: 313

Hello to the group. My call is KC0LCL. Given a choice of running a Hex-Beam at 40' which is its reccommended height or Something like the KT36XA from M2 technologies at the same height. 40' is pretty low for that antenna.

link to KT36XA antenna
http://www.m2inc.com

Details:
QTH Missouri
550' above sea level on a ridge (good ham spot)
70'+ tall trees all around
Location will accomodate 40' radius of "clear"
Could go up to 70' legally, but not financially.

Thanks,
Barry
KC0LCL

[Non-text portions of this message have been removed]

314. More on the Channel Master rotor controller

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-25 18:45:13 UTC
From: Floyd Sense
Topic: 314 Message: 314

Here's some more info on the Channel Master 9537 rotor controller I mentioned the other day. I received mine today and had it hooked up in about 10 minutes. The new control unit is a fraction of the size of the old one, about the size of a large thick wallet! It has an LED display on the front, to read out the compass heading in degrees, or the memory channel number. The remote control is a typical medium sized infra-red unit that takes a couple of AAA batteries.

You have a choice of two methods of telling it the position you want to rotate the antenna to. First, you can simply enter the compass heading as a three digit number. When you do that, the controller first displays what you entered, then displays the current heading as the antenna rotates. When it arrives at the right position, you see the heading you entered again. Optionally, you can set up memories to associate a one or two digit number with a heading - this was designed so you could enter a TV channel number. If you enter a one or two digit number instead of a three digit one, the controller assumes it to be a memory channel number instead of a compass heading, and sets the direction to the associated compass heading. To set the channel numbers, you simply set the desired compass heading, then press up-channelnumber-up on the remote.

The controller is almost totally silent, but you will hear a relay click once at the beginning and end of rotation. Power for the controller comes from a rather large 18VDC wall-wart power supply.

One drawback in my installation: I have things arranged so that the end of rotation is south instead of north. On my old controller, I just installed some labels on the face to reflect the new directions. On this controller, you're stuck with end of rotation being north, or 000 degrees. To circumvent this for now, I used the channel number memories so I wouldn't have to convert the compass headings. For example, north is channel 1, northeast is channel 2, etc. All I have to do for now, then, is enter the channel number that corresponds with the DX spot direction. Guess I'll have to climb the tower and rotate the antenna 180 degrees one of these days.

One responder to my original post said this is not a new product from Channel Master - it's been around for a while. My guess is - not too long since the paperwork with it has info on satellite TV systems. Anyway, the price is certainly right at $39.95 and the design/operation is much more than I had hoped for.

--
K8AC
Floyd Sense - Angier, NC

315. Re: Hex-Beam vs. "Full-Size" Yagi

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-26 02:18:39 UTC
From: w4wb
Topic: 313 Message: 315

Hi Barry. Here are a few points to think about perhaps.

1. HX-5Bi is lighter by a factor of two than the KT36XA, has less than 50% of the turning radius of the KT36XA, has five band coverage instead of the three of the KT36XA, and likely has about the same general performance.
2. The KT36XA will require a stronger tower and more costly rotor. Windloading and torque due to wind is less with the HX-5Bi. Also, icing is surely more of a problem with the KT36XA.
3. Assembly of the HX-5Bi is minimal compared to the KT36XA (about 90 minutes for the Hex-Beam). No tuning required for the HX-5B, but you have to do so for the other.
4. Having the tribander at 70' as a requirement is not really valid. Many heavy-duty DXers have their workhorse antennas at 40', another tier at 60-70', and a final group at 90-100'. This provides a range of TOA and the higher antennas also form secondary lobes providing more coverage.

Hope this is of some help.

73 de Barry - W4WB

--- In hex-beam@y..., "Barry Baker" <barryb@i...> wrote:
> Hello to the group. My call is KC0LCL. Given a choice of running a Hex-Beam at 40' which is its reccommended height or Something like the KT36XA from M2 technologies at the same height. 40' is pretty low for that antenna.
>
> link to KT36XA antenna
> http://www.m2inc.com
>
> Details:
> QTH Missouri
> 550' above sea level on a ridge (good ham spot)
> 70'+ tall trees all around
> Location will accomodate 40' radius of "clear"
> Could go up to 70' legally, but not financially.
>
> Thanks,
> Barry
> KC0LCL
>
>
> [Non-text portions of this message have been removed]

316. Re: More on the Channel Master rotor controller

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-26 03:01:47 UTC
From: Doug Faunt N6TQS +1-510-655-8604
Topic: 314 Message: 316

In fact this is more sophisticated than the unit I had, I think. You
couldn't enter an azimuth, but as I recall, you set it to a direction
and then entered that into memory.
Satellite TV systems have been around a long time.
73, doug

Date: Fri, 25 Jan 2002 13:45:13 -0500
From: Floyd Sense <k8ac@...>
Subject: More on the Channel Master rotor controller

One responder to my original post said this is not a new product from
Channel Master - it's been around for a while. My guess is - not too
long since the paperwork with it has info on satellite TV systems.
Anyway, the price is certainly right at $39.95 and the design/operation
is much more than I had hoped for.

--
K8AC
Floyd Sense - Angier, NC

317. Re: [hex-beam] Re: More on the Channel Master rotor controller

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-26 03:32:11 UTC
From: Hisashi T Fujinaka
Topic: 314 Message: 317

Just for a data point, I put up a 2-element 10/6M quad with a Radio Shack rotator and I think it quit rotating in a week. Time to climb the roof again to see if the wires fell off.

On Fri, 25 Jan 2002, Doug Faunt N6TQS +1-510-655-8604 wrote:

> In fact this is more sophisticated than the unit I had, I think. You
> couldn't enter an azimuth, but as I recall, you set it to a direction
> and then entered that into memory.
> Satellite TV systems have been around a long time.
> 73, doug
>
>
> Date: Fri, 25 Jan 2002 13:45:13 -0500
> From: Floyd Sense <k8ac@...>
> Subject: More on the Channel Master rotor controller
>
> One responder to my original post said this is not a new product from
> Channel Master - it's been around for a while. My guess is - not too
> long since the paperwork with it has info on satellite TV systems.
> Anyway, the price is certainly right at $39.95 and the design/operation
> is much more than I had hoped for.

--
Hisashi T Fujinaka - htodd@...
BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte

318. Comparison data

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-26 06:11:12 UTC
From: wb6roh
Topic: 318 Message: 318

Anyone who has any other band-common antennas in their arsenal besides the Hex-beam? Any data that you may wish to share with others will be greatly appreciated, I am sure.

Doug - WB6ROH

319. N6TZ - where are you?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-26 14:07:25 UTC
From: Floyd Sense
Topic: 319 Message: 319

I attempted to respond to your email regarding the Channel Master rotor,
but the email address n6tz@... is bogus.
--
K8AC
Floyd Sense - Angier, NC

320. Re: Hex-Beam vs. "Full-Size" Yagi

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-26 20:05:05 UTC
From: w4wb
Topic: 313 Message: 320

I forgot to mention that the KT36XA is almost $300 more that the HX-5Bi.

73 de Barry - W4WB

321. Re: [hex-beam] Re: Hex-Beam vs. "Full-Size" Yagi

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-26 20:18:54 UTC
From: Barry Baker
Topic: 313 Message: 321

The tower is a US Tower model tmm 433-HD. It will support either antenna.

Rotor is a HAM V will turn either antenna.

Already ordered the Hex-Beam. I guess just a little buyers remorse as I am awaiting a 4 - 6 week delivery on the antenna. Leaves too much time to continue "drooling" over antennas. I hope the Hex-Beam was the correct solution. The KT36XA is awful big and sweet looking. Still time to cancel with that long lead time.

Thanks,
Barry
KC0LCL
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Saturday, January 26, 2002 2:05 PM
Subject: [hex-beam] Re: Hex-Beam vs. "Full-Size" Yagi

I forgot to mention that the KT36XA is almost $300 more that the HX-5Bi.

73 de Barry - W4WB

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[Non-text portions of this message have been removed]

322. Re: Hex-Beam vs. "Full-Size" Yagi

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-26 20:30:39 UTC
From: w4wb
Topic: 313 Message: 322

FB Barry, sounds like you will have a fine installation. The weeks will pass fast (ok, slooowly). ;-)

Look forward to hearing you on the air!

73 de Barry - W4WB

--- In hex-beam@y..., "Barry Baker" <barryb@i...> wrote:
> The tower is a US Tower model tmm 433-HD. It will support either antenna.
>
> Rotor is a HAM V will turn either antenna.
>
> Already ordered the Hex-Beam. I guess just a little buyers remorse as I am awaiting a 4 - 6 week delivery on the antenna. Leaves too much time to continue "drooling" over antennas. I hope the Hex-Beam was the correct solution. The KT36XA is awful big and sweet looking. Still time to cancel with that long lead time.
>
> Thanks,
> Barry
> KC0LCL

323. Re: More on the Channel Master rotor controller

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-26 20:50:40 UTC
From: wb6roh
Topic: 314 Message: 323

Hello Floyd,

I have an old AR-22 that has repeatability problems. It is top-mounted using the mast adapter common to this generation of rotators. Do you KNOW if the 9521 and its IR controls would be an upgrade or not? I am concerned about the ruggedness of the motor and gearbox as well as the apparent commonality of having to synchronize the system.

Doug - WB6ROH

--- In hex-beam@y..., Floyd Sense <k8ac@a...> wrote:
> Here's some more info on the Channel Master 9537 rotor controller I
> mentioned the other day. I received mine today and had it hooked up in
> about 10 minutes. The new control unit is a fraction of the size of the
> old one, about the size of a large thick wallet! It has an LED display
> on the front, to read out the compass heading in degrees, or the memory
> channel number. The remote control is a typical medium sized infra-red
> unit that takes a couple of AAA batteries.
>
> You have a choice of two methods of telling it the position you want to
> rotate the antenna to. First, you can simply enter the compass heading
> as a three digit number. When you do that, the controller first
> displays what you entered, then displays the current heading as the
> antenna rotates. When it arrives at the right position, you see the
> heading you entered again. Optionally, you can set up memories to
> associate a one or two digit number with a heading - this was designed
> so you could enter a TV channel number. If you enter a one or two digit
> number instead of a three digit one, the controller assumes it to be a
> memory channel number instead of a compass heading, and sets the
> direction to the associated compass heading. To set the channel
> numbers, you simply set the desired compass heading, then press
> up-channelnumber-up on the remote.
>
> The controller is almost totally silent, but you will hear a relay click
> once at the beginning and end of rotation. Power for the controller

> comes from a rather large 18VDC wall-wart power supply.
>
> One drawback in my installation: I have things arranged so that the end
> of rotation is south instead of north. On my old controller, I just
> installed some labels on the face to reflect the new directions. On
> this controller, you're stuck with end of rotation being north, or 000
> degrees. To circumvent this for now, I used the channel number memories
> so I wouldn't have to convert the compass headings. For example, north
> is channel 1, northeast is channel 2, etc. All I have to do for now,
> then, is enter the channel number that corresponds with the DX spot
> direction. Guess I'll have to climb the tower and rotate the antenna
> 180 degrees one of these days.
>
> One responder to my original post said this is not a new product from
> Channel Master - it's been around for a while. My guess is - not too
> long since the paperwork with it has info on satellite TV systems.
> Anyway, the price is certainly right at $39.95 and the design/operation
> is much more than I had hoped for.
>
> --
> K8AC
> Floyd Sense - Angier, NC

324. Hi, new list member

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-26 23:40:57 UTC
From: m5mdh
Topic: 324 Message: 324

Hi Folks,

Its Mark, M5MDH, QTH: Eastleigh, Hampshire, England. Just a quick message to say hi and it looks like a interesting group, so i thought i'd join. I'll post occasionally but I'll be lurking mostly. I see the homebrew Hex of VK2DPD has really taken shape.. as I can't afford one at the moment... the idea of a homebrew Hex is really tempting. At the moment, i'm confined to indoor attic dipoles but i've managed to work in the region of 130-ish DXCC entities, so perhaps a Hex, might give me a little more punch...

Anyway 73 de Mark M5MDH

325. Re: Hi, new list member

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-27 03:16:24 UTC
From: wb6roh
Topic: 324 Message: 325

Welcome Mark,

Congrats on your stealth achievements and welcome to the Hex-beam users and wannabees site. Our Aussie member has done well with his project and there are a few 6 and 10 meter homebrewed Hexs on the mainland here also. Look for us at 2230Z on Saturdays on 28356. We could use a net and net control station on 15; maybe on 21356 at 2000Z on Saturdays or Sundays. Anybody game?

73 - Doug - WB6ROH

--- In hex-beam@y..., "m5mdh" <area_x1@y...> wrote:
> Hi Folks,
>
> Its Mark, M5MDH, QTH: Eastleigh, Hampshire, England. Just a quick
> message to say hi and it looks like a interesting group, so i
thought
> i'd join. I'll post occasionally but I'll be lurking mostly. I
see
> the homebrew Hex of VK2DPD has really taken shape.. as I can't
afford
> one at the moment... the idea of a homebrew Hex is really
tempting.
> At the moment, i'm confined to indoor attic dipoles but i've
managed
> to work in the region of 130-ish DXCC entities, so perhaps a Hex,
> might give me a little more punch...
>
> Anyway 73 de Mark M5MDH

326. Sunday Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-27 04:19:30 UTC
From: David Douglass
Topic: 326 Message: 326

Had a quick listen again today, but band was dead in this part of the World.
Oh Well, maybe next week.

Regards

David
vk2dpd@...
vk2dpd@...

327. Re: Sunday Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-27 04:42:49 UTC
From: w4wb
Topic: 326 Message: 327

Hi David,

At about 0400Z, an A52 was on 15 m SSB (21.285 up). He was 51 to 52 here at the house (FT-847 and Titan vertical). Folks were saying there were going over the South pole. Am certain he will go QRT if I drive to the office to fire up the rig with the Hex-Beam. :-(

Often hear VKs on 20 m in the 0400-0700Z time frame. The VP8 boys are likely to fire up again within the next 24 hours. Hope you get them again from the S. Georgia Is.

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Had a quick listen again today, but band was dead in this part of the World.
> Oh Well, maybe next week.
>
> Regards
>
> David
> vk2dpd@q...
> vk2dpd@b...

328. Re: [hex-beam] Re: Sunday Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-27 05:24:07 UTC
From: David Douglass
Topic: 326 Message: 328

Thanks for the note Barry.

I was actually working a few west coast US stations around 0930 on 10M RTTY, but when I came back from Brekkie, all was dead. Yep, would be good to get the from South Georgia, and think they are planning to stay for a little longer so should have a fair chance.

I worked a V51 mid-week for another new one here. Probably not too rare for you guy's in the US, but West Coast Africa is a difficult path from here.

Anyway all the best and CUL

David, VK2DPD
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Sunday, January 27, 2002 4:42 AM
Subject: [hex-beam] Re: Sunday Net

Hi David,

At about 0400Z, an A52 was on 15 m SSB (21.285 up). He was 51 to 52 here at the house (FT-847 and Titan vertical). Folks were saying there were going over the South pole. Am certain he will go QRT if I drive to the office to fire up the rig with the Hex-Beam. :-(

Often hear VKs on 20 m in the 0400-0700Z time frame. The VP8 boys are likely to fire up again within the next 24 hours. Hope you get them again from the S. Georgia Is.

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Had a quick listen again today, but band was dead in this part of the World.
> Oh Well, maybe next week.
>
> Regards
>
> David
> vk2dpd@q...
> vk2dpd@b...

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[Non-text portions of this message have been removed]

329. Re: [hex-beam] Hi, new list member

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-27 09:21:24 UTC
From: David Douglass
Topic: 324 Message: 329

Hi Mark and welcome.

I wonder how big your loft space is there - maybe you could fit a hex beam in there??

I got an e-mail from a guy who has a 10M Moxon Rectangle in his, so suppose it could be done. An option could be to cut both elements to the same size and feed them both with twin lead and remotely tune them, to allow instant direction switching. That way you could support the wire elements from the rafters??

Anyway, good luck and see you on the band.

David, VK2DPD (M0DPD)
----- Original Message -----
From: m5mdh
To: hex-beam@yahoogroups.com
Sent: Saturday, January 26, 2002 11:40 PM
Subject: [hex-beam] Hi, new list member

Hi Folks,

Its Mark, M5MDH, QTH: Eastleigh, Hampshire, England. Just a quick message to say hi and it looks like a interesting group, so i thought i'd join. I'll post occasionally but I'll be lurking mostly. I see the homebrew Hex of VK2DPD has really taken shape.. as I can't afford one at the moment... the idea of a homebrew Hex is really tempting. At the moment, i'm confined to indoor attic dipoles but i've managed to work in the region of 130-ish DXCC entities, so perhaps a Hex, might give me a little more punch...

Anyway 73 de Mark M5MDH

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[Non-text portions of this message have been removed]

330. Re: Hi, new list member

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-27 17:33:18 UTC
From: m5mdh
Topic: 324 Message: 330

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi Mark and welcome.
>
> I wonder how big your loft space is there - maybe you could fit a
hex beam in there??
>
> I got an e-mail from a guy who has a 10M Moxon Rectangle in his, so
suppose it could be done. An option could be to cut both elements to
the same size and feed them both with twin lead and remotely tune
them, to allow instant direction switching. That way you could
support the wire elements from the rafters??
>
> Anyway, good luck and see you on the band.
>
> David, VK2DPD (M0DPD)

Hi David,
Thanks for another idea for a Hex,I sure i could fit a 12 metre,
possibly a 15m loft mounted Hex. It would also be quite cheap as
materials not ideal for such a structure mounted outside(such as
Bamboo canes for a monobander) could be used.

I have one of those DK9SQ 10 metre fibreglass telescopic masts and
was planning to make a Hex for use in conjunction with this mast
mounted about 3 or 4 sections down with the Hexbeam arms made out of
small diameter PVC tubing.

My thoughts for now,

Adios, Mark M5MDH

331. 2 Metre Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-27 18:03:07 UTC
From: m5mdh
Topic: 331 Message: 331

Hi all,

I've decided that I'll have a go at brewing up a 2 metre hexbeam as its very small size would assist me in the design concept for a HF Hexbeam and the fact it would be interesting how it would perform in 2 metres.

Adios, Mark M5MDH

332. Re: [hex-beam] 2 Metre Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-27 18:13:27 UTC
From: Brad Sumner
Topic: 331 Message: 332

Just fininshed a 6M version Mark with the first test a few minutes ago and looks good. I used 1/4 inch fiberglass rods for the spreaders three feet long. I got these at Wal-Mart. They are designed as caution flags to be attached to a bicycle. They are six feet long with a red orange pennant on one end and a metal bracket to attach to the axel of the bicycle on the other end. Both can be removed easily.

To hold the wires to the spreaders I found some 1/2 inch nylon spacers with a 1/4 inch hole and about 1/4 inch thick. I drilled and tapped them for a 4-40 set screw to hold them on the spreaders about 3/8 inch from the end. Then a trip to the local fishing supply yielded some #6 stainless steel "split rings". These are just a little greater than 1/4 inch in diameter and slip nicely over the spreaders with the antenna wire running through them attaching the wire to the spreaders. The tension against the nylon spacers seems to hold them in place but they could be glued if necessary.

Hope this gives you some ideas about yours.

73,

Brad--K0TRL

333. RE: [hex-beam] Re: Hi, new list member

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-27 17:45:33 UTC
From: John Caulfield
Topic: 324 Message: 333

Hi Mike and another welcome. I have fun looking at the photos in the photos file for this group.

73□s

John Caulfield
Cleaves-Bessmer-Marietti, Inc.
johnc@...
www.cbmrep.com
816.353.6011
816.353.7277 Fax

-----Original Message-----
From: m5mdh [mailto:area_x1@...]
Sent: Sunday, January 27, 2002 11:33 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Hi, new list member

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi Mark and welcome.
>
> I wonder how big your loft space is there - maybe you could fit a hex beam in there??
>
> I got an e-mail from a guy who has a 10M Moxon Rectangle in his, so suppose it could be done. An option could be to cut both elements to the same size and feed them both with twin lead and remotely tune them, to allow instant direction switching. That way you could support the wire elements from the rafters??
>
> Anyway, good luck and see you on the band.
>
> David, VK2DPD (M0DPD)

Hi David,
Thanks for another idea for a Hex,I sure i could fit a 12 metre, possibly a 15m loft mounted Hex. It would also be quite cheap as materials not ideal for such a structure mounted outside(such as Bamboo canes for a monobander) could be used.

I have one of those DK9SQ 10 metre fibreglass telescopic masts and was planning to make a Hex for use in conjunction with this mast mounted about 3 or 4 sections down with the Hexbeam arms made out of small diameter PVC tubing.

My thoughts for now,

Adios, Mark M5MDH

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[Non-text portions of this message have been removed]

334. Re: [hex-beam] Re: Hi, new list member

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-27 23:54:15 UTC
From: David Douglass
Topic: 324 Message: 334

Mark,

I also have the DK9SQ pole which I use for a 40M vertical every now and then. I'm not sure, but would think that even with the top couple of sections removed it wouldn't be that sturdy. Anyway, good luck!

David, VK2DPD
----- Original Message -----
From: m5mdh
To: hex-beam@yahoogroups.com
Sent: Sunday, January 27, 2002 5:33 PM
Subject: [hex-beam] Re: Hi, new list member

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi Mark and welcome.
>
> I wonder how big your loft space is there - maybe you could fit a
hex beam in there??
>
> I got an e-mail from a guy who has a 10M Moxon Rectangle in his, so
suppose it could be done. An option could be to cut both elements to
the same size and feed them both with twin lead and remotely tune
them, to allow instant direction switching. That way you could
support the wire elements from the rafters??
>
> Anyway, good luck and see you on the band.
>
> David, VK2DPD (M0DPD)

Hi David,
Thanks for another idea for a Hex,I sure i could fit a 12 metre, possibly a 15m loft mounted Hex. It would also be quite cheap as materials not ideal for such a structure mounted outside(such as Bamboo canes for a monobander) could be used.

I have one of those DK9SQ 10 metre fibreglass telescopic masts and was planning to make a Hex for use in conjunction with this mast mounted about 3 or 4 sections down with the Hexbeam arms made out of small diameter PVC tubing.

My thoughts for now,

Adios, Mark M5MDH

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[Non-text portions of this message have been removed]

335. Re: Hi, new list member

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-27 16:48:11 UTC
From: m5mdh
Topic: 324 Message: 335

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi Mark and welcome.
>
> I wonder how big your loft space is there - maybe you could fit a hex beam in there??
>
> I got an e-mail from a guy who has a 10M Moxon Rectangle in his, so suppose it could be done. An option could be to cut both elements to the same size and feed them both with twin lead and remotely tune them, to allow instant direction switching. That way you could support the wire elements from the rafters??
>
> Anyway, good luck and see you on the band.
>
> David, VK2DPD (M0DPD)

Hi David

Good idea for a loft mounted Hexbeam, I'm sure i could fit a hexbeam for one of the higher bands up there(such as 12 or 10m) and one advantage of a loft mounted one is I could very cheap materials for the frame such as bamboo, as it would not need the weather proofing a external one would.

I have one of those DK9SQ 10 metre, telescopic fibreglass masts and i was going to brew up a hex mounted about 3 or 4 sections down from the top with the frame made from small diameter PVC piping.. that'll be probably for the future..

Adios

Mark, M5MDH

336. VP8GEO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-28 05:27:33 UTC
From: w4wb
Topic: 336 Message: 336

WOW! When the VP8GEO guys came up tonight, the band went wild with DXers (and a few lids too).

On 20 m, the CW op was listening over a 10 kHz BW and the SSB op was listening over a 20 kHz BW. It was wall-to-wall.

I considered myself lucky to work them on 20 m CW and SSB. Since I expect the question of how many calls it took, I kept count. On CW, it took 6 tries. He was 549 at my QTH. On SSB, it took 9 tries and he was 53. The average S-meter reading in the calling freqencies was 20/9 and sounded like noise almost. The op was doing a good job pulling out calls and was keeping up a fairly good rate.

I made the QSOs using a FT-1000MP and Quarda (1000 W) with the HX-5B. Frankly, I don't think I could have made the SSB contact without a lot more tries if I had been running barefoot. There were just too many Big Guns on and I need to level the playing field, hence on came the Quadra. In a few days the Big Guns will be gone from the piles. I am going to try QRP about midweek with the Hex-Beam and FT-817.

GL on working VP8GEO on all bands.

73 de Barry - W4WB

337. Re: [hex-beam] VP8GEO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-28 05:33:58 UTC
From: David Douglass
Topic: 336 Message: 337

Well done Barry, still haven't heard him here yet, but maybe later

Regards

David
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Monday, January 28, 2002 5:27 AM
Subject: [hex-beam] VP8GEO

WOW! When the VP8GEO guys came up tonight, the band went wild with
DXers (and a few lids too).

On 20 m, the CW op was listening over a 10 kHz BW and the SSB op was
listening over a 20 kHz BW. It was wall-to-wall.

I considered myself lucky to work them on 20 m CW and SSB. Since I
expect the question of how many calls it took, I kept count. On CW,
it took 6 tries. He was 549 at my QTH. On SSB, it took 9 tries and
he was 53. The average S-meter reading in the calling freqencies was
20/9 and sounded like noise almost. The op was doing a good job
pulling out calls and was keeping up a fairly good rate.

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lot more tries if I had been running barefoot. There were just too
many Big Guns on and I need to level the playing field, hence on came
the Quadra. In a few days the Big Guns will be gone from the piles.
I am going to try QRP about midweek with the Hex-Beam and FT-817.

GL on working VP8GEO on all bands.

73 de Barry - W4WB

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338. Re: More on the Channel Master rotor controller

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-28 12:54:18 UTC
From: Floyd Sense
Topic: 314 Message: 338

The 9515 rotor was a beefed up model, with larger gears and some sort of braking mechanism. I've not been able to tell from the Channel Master literature whether the 9521 is made the same as the 9515 or not. Why not telephone Channel Master and see if they can tell you? I don't think the hexbeam will stress the rotor anyway. I've had television antennas that were about as big as a hexbeam, and the rotors worked fine for decades. By the way, I've never seen the need to synchronize the system as some others have mentioned. Don't know if that's because of the low turning torque of the hexbeam, or the ruggedness of the 9515. The new controller has a feature that optionally will automatically synchronize the controller and rotor every 50 times it moves.

Probably because of the consumer nature of the rotors, the paperwork that comes with it says nothing about the mechanical ratings of the rotor. I did see on their website that the 9515 was rated for 250 lb. loads. I don't think I'd want to put that type of load on top of any aluminum-shelled rotor without some sort of bearing above it to absorb lateral forces!

One good source of rotor durability information might be a phone call to Norm's Rotor Service (search the Web for number). He rebuilds all types of rotors and probably knows well how the various models fail.
--
K8AC
Floyd Sense - Angier, NC

>I have an old AR-22 that has repeatability problems. It is top-
>mounted using the mast adapter common to this generation of rotators.
>Do you KNOW if the 9521 and its IR controls would be an upgrade or
>not? I am concerned about the ruggedness of the motor and gearbox as
>well as the apparent commonality of having to synchronize the system.
>
>Doug - WB6ROH

339. Channel Master vs. Radio Shack Rotators

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-28 18:20:33 UTC
From: Hal Williams
Topic: 339 Message: 339

I am on the list for a Hex from Traffie. Here are some of my preparatory decisions. I live in an uptight neighborhood with typical 100 x 70 foot lots in Camarillo, Ca. A permit must be taken out for any mast or tower, or you will just be taking it down a week after you have put it up. I have completed the zoning and building permit process and it was not excessive in any way. It cost $37.25 for the processing. I chose to go with a Rohn 50 foot push-up mast, nestled at 40 feet to soothe the neighbors. I already had an old lattice crank-up 52 foot tower but it is not necessary for the 20 pound Hex.

I have compared the Channel Master and Radio Shack rotators and they are the same units with minor variations; obviously made in the same factory.

The Radio Shack 15-1245 unit was picked for the following reasons:

1. The rotator unit has a heavy machine bolt holding the bottom plate on, not a tension clip that I saw on the Channel Master.
2. The rotator is painted gray, not neighbor-eye-sore-yellow as on the Channel Master.
3. The control head is a simple dial unit with AC cord. No wall wart or IR remote unit. I do not need an IR remote unit as I sit at the rig anyway, and I believe in the KISS formula (less complications to go wrong).

The whole mast will be grounded and shunt fed as a vertical on 160, 80, 40, and 30 against my extensive radial ground system (over 1,300 feet of wire) that is already under the lawn, driveway and etc. I am lucky to have access to lots of good used vacuum variables and relays and heavy coil stock for the shunt feed tuner as I work in radio broadcasting. I have done shunt feeds before, and if you have not tried it, you are missing out on a VERY effective antenna for lower bands. To minimize the noise on receive on 160 & 80, a folded dipole is stapled out of site on the rear wooden fence at 6 feet high and double balanced (2 coaxes) RG-6, 75 ohm coax comes into the shack to a small tuner for peaking on receive only. I have found that this makes up to 20 db difference at times on receive signal to noise compared to the random wire that I presently transmit on. I expect similar results compared to the shunt fed mast.

Hal, N6TZ

340. Ordered Hexbeam, Decisions to Make! help!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-28 23:43:32 UTC
From: wo8usa
Topic: 340 Message: 340

I ordered my HX5Bi before New Year's. The backlog, supplies, and upcoming hamfest will keep my newfound friend away from me until mid February.

I would like to mount the beam on a push up mast at 20-30 feet. Rohn and Channel Master make one. I have seen the Channel Master at Lowe's (along with the Channel Master rotar) but I am leary of the actual strain the Hexbeam will but on it under a 50 MPH wind. I would prefer to avoid the tower but want safety.

I cannot house-support the pole at almost the top as others do--single story house here and will need to rely on guying. Any stories/suggestions as to how pole-mounted Hexbeam's survived the weather? Guying? Ground mount? Thanks for all in advance.

Hoping to have the Hexbeam in time for March,
Chris wo8usa@...

341. RE: [hex-beam] Ordered Hexbeam, Decisions to Make! help!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-29 00:00:27 UTC
From: Hal Williams
Topic: 340 Message: 341

Hi Chris,
I have seen pictures of ice-laden hexs on masts on the hexbeam.com website. If you analyze a guyed tower/mast, you will find that if done correctly it is quite strong.

I purchased a fifty foot Rohn mast from an electronics dealer here in town. It is a standard item, but you may have to call around for it; try some of the old TV shops. I will leave it at 40 feet to increase the strength.

Lay out your yard on quadrille paper to scale and find where you can locate 3 guy anchor points so they are 120 degrees plus or minus 6 degrees apart. Then, measure how far the anchors are from the base of the mast and lay out the elevation angle on the quad paper with the distance and height of the tower. The angel of the guy should not exceed 55 to 60 degrees when measured with a protractor to the top guy point on the mast. (the lower sets of guys will be less angle)

Use 1/8 cable, NOT TV mast wire. Use thimbles so the cable does not get cut at the guy ring on the mast. Use two sets of cable clamps at each junction. Use quality ceramic EGG insulators (if egg insulators break, the cable stays looped thru each other). If you guy to a wooden point on the house or patio, make sure it is very sturdy and use an eye-bolt with washer and nut, NOT a screw-eye. Place turnbuckles at the bottom ends of the guys.

Two of my guys will go to steel fence posts that I will set in concrete, 30 inches into the ground so that 5 ½ feet of the 8 foot post is above ground. Then the 2 3/8 dia., 16 guage posts will be filled with concrete. Near the top, eye-bolts will go thru the posts and the concrete will then fill to the top. My third guy point will be built off of the house rafters.

Raising the mast takes 4 people, one lifting and three on the guys to keep it from folding. It must be done on a totally no wind day. All people must wear hard-hats.

I hope this helps,

Hal, N6TZ

-----Original Message-----
From: wo8usa [mailto:wo8usa@...]
Sent: Monday, January 28, 2002 3:44 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Ordered Hexbeam, Decisions to Make! help!

I ordered my HX5Bi before New Year's. The backlog, supplies, and upcoming hamfest will keep my newfound friend away from me until mid February.

I would like to mount the beam on a push up mast at 20-30 feet. Rohn and Channel Master make one. I have seen the Channel Master at Lowe's (along with the Channel Master rotar) but I am leary of the actual strain the Hexbeam will but on it under a 50 MPH wind. I would prefer to avoid the tower but want safety.

I cannot house-support the pole at almost the top as others do--single story house here and will need to rely on guying. Any stories/suggestions as to how pole-mounted Hexbeam's survived the weather? Guying? Ground mount? Thanks for all in advance.

Hoping to have the Hexbeam in time for March,
Chris wo8usa@...

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342. Re: Ordered Hexbeam, Decisions to Make! help!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-29 02:53:51 UTC
From: w4wb
Topic: 340 Message: 342

Hi Chris,

Hal gave some good advice; however, I suggest that using wire guys has one significant drawback. Unless you are careful, wire guys can cause you problems by impacting your antenna's field. See most any antenna handbook. The load here is relatively light so you can use the black Dacron polyester rope made by Synthetic Textiles. AES sells it (see p. 133) for about $40 for a 350' roll.

As Hal said, if you can find three guy points about 120 degs apart, then go for it. In my case (see photo on home page of this site), four guy points were required due to the construction of the building we mounted it upon.

I have watched the antenna happily withstand 50+ mph winds without hardly any movement. Most interesting to watch during a storm.

Hal is absolutely correct about the minimum number of people to have available to raise the antenna/mast. A floater is also a good idea. Using the 50' mast for a 40' height is also wise; however, I suggest that rather than just not extending the upper section, that you consider using maybe about half of the upper section and then overlap the other sections to increase the strength (drill a hole through the mast for each section and bolt it in place).

CUL and 73,
Barry - W4WB

343. telescoping masts and guying

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-29 15:49:24 UTC
From: n4vi
Topic: 343 Message: 343

The best article on guying and telescoping masts that I've seen is in May 1994 QST. It's titled "Amateur Use of Telescoping Masts" by Bob Haviland (Mr. Quad). He goes through calcuations, wind loading, guys, etc.

73

chris, n4vi
n4vi@...

344. 9521 rotator system info

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-29 16:38:00 UTC
From: wb6roh
Topic: 344 Message: 344

Fellow Hexers,

I got the following info from Channel Master tech service.
The "Bursma " link has a source for repair parts for these rotators.
I am not sure if they retail, but the have an "800" number that
interested parties could use to ask.

73 - Doug - WB6ROH

.....
This rotator is rated at 3 sq. ft for the maximum balanced wind load
area.
The maximum vertical load is 250 lbs. CM used to manufacture a heavy
duty
rotator model 9515 that was rated at 5 sq. ft. for wind load. You may
be
able to locate the heavy duty unit through CM distribution. Contact
Bursma
Electronics at www.bursma.com <http://www.bursma.com> or (6160831-
0080.
.....

345. 6 Meter homebrew hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-29 16:48:53 UTC
From: Brad Sumner
Topic: 345 Message: 345

Hi All

Well, still waiting for the real hex beam to be delivered but in the meantime as some of you know I have been working on a home brew 6 meter variety.
It is now installed on a ten foot guyed mast for tuning and testing.
Rotator by "armstrong", Doug.
Got some good measurements yesterday and perhaps the real test was two 59 plus 10 reports during a short opening between Kansas City and Alaska yesterday afternoon. I really have no experience on six so maybe this is routine but it was exciting for a first 6 meter qso with a new antenna. If the HX5Bi works as well I know I am going to be very happy with it.

346. Re: 2 Metre Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-29 21:21:21 UTC
From: m5mdh
Topic: 331 Message: 346

Thanks for the info Brad, its lucky that you have such a readily available supply of fibreglass rods- something I'm having difficulty getting hold. I found a uk website where you can get rods but the maximum diameter is 5mm, which should be ok for a VHF Hex but most likely unsuitable for a HF one.

Thats not the only problem I have here.. I also have EMC probs. My transmissions are breaking through on the telephone and one of the household HI-FI systems(don't know about the others) at 100 watts on the indoor dipole its quite bad but down to 5 watts its hardly noticable. I'm sure if its just the power overloading the affected equipment or RF getting down the outer braid of the Co-ax. I tried a small coax choke balun about 4 turns with a diameter of 10cm (this is probably insufficient) but no change... ah well such are the joys of Ham radio :)

Adios, Mark M5MDH

347. Optimum height?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-30 00:58:46 UTC
From: buzzmann555
Topic: 347 Message: 347

I am a new owner (2.5 months) of the 5 band hex beam and am enjoying it greatly. I am curious if anyone has done modeling to see what is the optimum height for this antenna. I have it at 50' at the present time. Any input is greatly appreciated. Was pleased to work a couple of the guys on the 10 meter net two weeks ago.

73,
Buzz
N5FTR

348. Re: Optimum height?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-30 04:51:30 UTC
From: w4wb
Topic: 347 Message: 348

Buzz,

Using the model I have for the Hex-Beam on 20 m, indicates that at 35' there is a single large elevation lobe with the -3 dB points at about 12 degs and 43 degs. TOA is 27 degs. When you raise it to 50', the lobe splits into two. TOA is 19 degs with -3 dB at 9 and 31 degs. At 43 degs, a -15 dB null occurs and the peak of the secondary lobe is around 70 degs at -4 dB. Take these numbers as just guidance rather than accurate since I am still looking for model with good fidelity.

At 65', the first lobe has a TOA of 15 degs with -3dB at 7 and 23 degs, null at 33 degs, and peak of 2nd lobe (-2 dB) at 50 degs with (relative) -3 dB at 40 and 65 degs.

If you raise the antenna more, you will see more lobes. As you go towards 80', you see 3 lobes. Also, the TOA decreases, sharpness of the lobes increases (narrower elevation beams), and the nulls get deeper.

FWIW, it doesn't matter a lot if the beam is a Hex-Beam or a Yagi, the general behavior is the same. In modeling a 5-element Yagi at 35', it shows a single lobe with a TOA of 23 degs with -3 dB at 11 and 39 degs. Sound familiar? At 50', the TOA is 19 degs with -3 dB at 19 and 29 degs. A second lobe is starting to form, but is about 2 S-units down. At 80', the TOA is 12 degs with the -3 dB at 6 and 12 degs, a -20 dB null at 26 degs, and the 2nd lobe peak at 38 degs (-4 dB) with (relative) -3 dB at 31 and 46 degs.

OK, so what does all this tell us. It basically means that you get lower TOA as you raise the antenna, (elevation) beam gets narrower, and the beams finally splits into two or more beams. You also develop deep nulls (you don't hear or radiate well at these angles) as the secondary lobes form. 35-40' is an interesting compromise height. You cover most of the "workhorse" TOA, but suffer at the lower; however, you aren't throwing energy straight up and wasting it either.

Top DXers frequently have beams at 40', 65', and 90' (+/-) so that they can take advantage of a wider range of TOA and fill in the nulls! Look at the 5-element Yagi at 26 degs having a -20 dB null. If the DX station angle is 26 degs, you are going to be in trouble; however the Hex-Beam or the Yagi have their beam peak response there. So the high antenna will basically not hear that station but the lower antenna will do great. On the other hand, higher antenna will likely well outperform the lower antennas when low TOA are

needed.

Hope this helps you some. My humble suggestion is that you would do better overall by dropping to about 40'.

73 de Barry - W4WB

--- In hex-beam@y..., "buzzmann555" <n5ftr@s...> wrote:
> I am a new owner (2.5 months) of the 5 band hex beam and am enjoying
> it greatly. I am curious if anyone has done modeling to see what is
> the optimum height for this antenna. I have it at 50' at the present
> time. Any input is greatly appreciated. Was pleased to work a
> couple of the guys on the 10 meter net two weeks ago.
>
> 73,
> Buzz
> N5FTR

349. Re: [hex-beam] Re: Optimum height?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-30 06:59:30 UTC
From: David Douglass
Topic: 347 Message: 349

Buzz,

As high as possible. I've heard 600foot is a good height, but haven't quite managed it myself yet.

Regards

David, VK2dpd
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Wednesday, January 30, 2002 4:51 AM
Subject: [hex-beam] Re: Optimum height?

Buzz,

Using the model I have for the Hex-Beam on 20 m, indicates that at 35' there is a single large elevation lobe with the -3 dB points at about 12 degs and 43 degs. TOA is 27 degs. When you raise it to 50', the lobe splits into two. TOA is 19 degs with -3 dB at 9 and 31 degs. At 43 degs, a -15 dB null occurs and the peak of the secondary lobe is around 70 degs at -4 dB. Take these numbers as just guidance rather than accurate since I am still looking for model with good fidelity.

At 65', the first lobe has a TOA of 15 degs with -3dB at 7 and 23 degs, null at 33 degs, and peak of 2nd lobe (-2 dB) at 50 degs with (relative) -3 dB at 40 and 65 degs.

If you raise the antenna more, you will see more lobes. As you go towards 80', you see 3 lobes. Also, the TOA decreases, sharpness of the lobes increases (narrower elevation beams), and the nulls get deeper.

FWIW, it doesn't matter a lot if the beam is a Hex-Beam or a Yagi, the general behavior is the same. In modeling a 5-element Yagi at 35', it shows a single lobe with a TOA of 23 degs with -3 dB at 11 and 39 degs. Sound familiar? At 50', the TOA is 19 degs with -3 dB at 19 and 29 degs. A second lobe is starting to form, but is about 2 S-units down. At 80', the TOA is 12 degs with the -3 dB at 6 and 12 degs, a -20 dB null at 26 degs, and the 2nd lobe peak at 38 degs (-4 dB) with (relative) -3 dB at 31 and 46 degs.

OK, so what does all this tell us. It basically means that you get lower TOA as you raise the antenna, (elevation) beam gets narrower, and the beams finally splits into two or more beams. You also develop deep nulls (you don't hear or radiate well at these angles)

as the secondary lobes form. 35-40' is an interesting compromise height. You cover most of the "workhorse" TOA, but suffer at the lower; however, you aren't throwing energy straight up and wasting it either.

Top DXers frequently have beams at 40', 65', and 90' (+/-) so that they can take advantage of a wider range of TOA and fill in the nulls! Look at the 5-element Yagi at 26 degs having a -20 dB null. If the DX station angle is 26 degs, you are going to be in trouble; however the Hex-Beam or the Yagi have their beam peak response there. So the high antenna will basically not hear that station but the lower antenna will do great. On the other hand, higher antenna will likely well outperform the lower antennas when low TOA are needed.

Hope this helps you some. My humble suggestion is that you would do better overall by dropping to about 40'.

73 de Barry - W4WB

--- In hex-beam@y..., "buzzmann555" <n5ftr@s...> wrote:
> I am a new owner (2.5 months) of the 5 band hex beam and am
enjoying
> it greatly. I am curious if anyone has done modeling to see what
is
> the optimum height for this antenna. I have it at 50' at the
present
> time. Any input is greatly appreciated. Was pleased to work a
> couple of the guys on the 10 meter net two weeks ago.
>
> 73,
> Buzz
> N5FTR

To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

350. Home Brew 6 Meter Ice Test

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-30 18:47:51 UTC
From: k0trl
Topic: 350 Message: 350

The Kansas City area is in the middle of an ice storm but so far the home brew 6 M hex is holding up. Picture is posted.

Brad K0TRL

351. Re: Home Brew 6 Meter Ice Test

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-01-31 02:37:42 UTC
From: w4wb
Topic: 350 Message: 351

Hey Brad,
Hit it with about a KW and melt that stuff! FWIW, it reached about 70 degs F here today. Hard to even think about ice covered Hex-Beams. :-)
73 de Barry - W4WB

--- In hex-beam@y..., "k0trl" <bsumner@s...> wrote:
> The Kansas City area is in the middle of an ice storm but so far the
> home brew 6 M hex is holding up. Picture is posted.
>
> Brad K0TRL

352. Orlando Hamfest

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-02 20:49:53 UTC
From: w4wb
Topic: 352 Message: 352

Mike Traffie will have a booth at the upcoming Orlando Hamfest. He also told me that the the Special Event station will be using an HX-5B. If you haven't seen one or played with one, it might be a good place to try it out.

73 de Barry - W4WB

353. Happ Camper!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-03 21:04:37 UTC
From: Meiselman
Topic: 353 Message: 353

Dear All:

As many of you are no doubt aware, there has been a continuing "K6HJM Saga" regarding my new 5-band Hex-Beam. It is mounted on a 4.5 foot Glenn Martin tower on the roof of my house (about 25 feet above ground) and can't go higher due to neighbors, XYL, etc. My "shack" is on the second floor of my house, with a long ground wire going down to two ground rods in moist soil. Had a RF choke at the top of the tower...7 turns on a 4.5 inch plastic core. Until very recently, I was having SWR problems, especially when reading SWR via a MFJ antenna analyzer. Values of 3 and even 4 on 10 meters!

NOW THE GOOD NEWS! Based upon many email and telephone discussions with Barry (W4WB) and email exchanges with Doug (WB6ROH), the SWR problems are gone!!!!!!!!!!

OK...here is what they told me to do:

1) remove the RF choke at the top of the tower (i.e., near the base of the antenna);
2) put 5 ferrite split beads on the coax just below the base of the antenna plus a couple more at the amp when the coax goes to the antenna..I used model FSB-1/2 from Palomar Engineers in California..also bought from them plastic cases/clamps for these beads which makes installation a "snap" (this is a bad pun since the plastic case snaps together to hold the bead on the coax...sorry!);
3) purchase a MFJ 931 Artificial Ground and connect it is series with the ground wire going to the ground rods.

Point #3 took some playing and thinking, since initially I had all equipment tied to a ground bus and the long ground wire attached to this bus. Now, however, the "DC and low frequency AC" ground is via the common electrical system in my house and the RF ground is through the MFJ 931 to earth ground.

THE RESULT: SWR less than 1.5 on all bands and over the entire SSB range for each band! In fact, most of the time the SWR is about 1.2 to 1.3 or better.

I hope some of the above is of interest to other Hex-Beam users. I also hope that Barry and Doug will accept my 1,000 "THANK YOUS" for all of their help and encouragement. They are great guys..someday perhaps we can have an eyeball-to-eyeball QSO and even a drop or two of good California wine.

73s to all,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

354. 30 & 40 m Hex-Beaming with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-05 18:26:19 UTC
From: w4wb
Topic: 354 Message: 354

I have been using the HX-5B on 30 and 40 m recently (since I have nothing else at that QTH on these bands). I have made a number of contacts on CW with good reports. Easily worked Europe on 40 m with the Hex-Beam's F/B and F/S helping quieten the QRM.

If any of you have a 40 m dipole or vertical or whatever, and also the HX-5B, please try to make a comparison and let us all know of your findings.

My guess is that it is behaving about like a dipole except that it has the pattern of a beam. F/B I see on 40 m is about 6-10 dB and a bit more on 30 m. Really weird. I'll take 0 dBd and directivity for free any day!

BTW, I am using a FT-1000MP and its internal tuner. Output shows 100 W.

73 de Barry - W4WB

355. Re: 30 & 40 m Hex-Beaming with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-05 23:55:02 UTC
From: m5mdh
Topic: 354 Message: 355

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
>
> I have been using the HX-5B on 30 and 40 m recently (since I have
> nothing else at that QTH on these bands). I have made a number of
> contacts on CW with good reports. Easily worked Europe on 40 m
with
> the Hex-Beam's F/B and F/S helping quieten the QRM.
>
> If any of you have a 40 m dipole or vertical or whatever, and also
> the HX-5B, please try to make a comparison and let us all know of
> your findings.
>
> My guess is that it is behaving about like a dipole except that it
> has the pattern of a beam. F/B I see on 40 m is about 6-10 dB and
a
> bit more on 30 m. Really weird. I'll take 0 dBd and directivity
for
> free any day!
>
> BTW, I am using a FT-1000MP and its internal tuner. Output shows
100
> W.
>
> 73 de Barry - W4WB

Sounds very interesting Barry, gain on 5 bands plus dipole
performance plus on one boom for a extra 2 bands if i had the money
i'd buy one now!! As VK2DPD showed with his homebrewed Hex, 8 bands
is possible and as i need something for 40 and 30 as well its given
me some more thoughts :)

73, Mark M5MDH

356. Re: [hex-beam] Re: 30 & 40 m Hex-Beaming with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-06 00:34:24 UTC
From: ra gerard
Topic: 354 Message: 356

on 5/2/02 23:55, m5mdh at area_x1@... wrote:

> --- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
>>
>> I have been using the HX-5B on 30 and 40 m recently (since I have
>> nothing else at that QTH on these bands). I have made a number of
>> contacts on CW with good reports. Easily worked Europe on 40 m
> with
>> the Hex-Beam's F/B and F/S helping quieten the QRM.
>>
>> If any of you have a 40 m dipole or vertical or whatever, and also
>> the HX-5B, please try to make a comparison and let us all know of
>> your findings.
>>
>> My guess is that it is behaving about like a dipole except that it
>> has the pattern of a beam. F/B I see on 40 m is about 6-10 dB and
> a
>> bit more on 30 m. Really weird. I'll take 0 dBd and directivity
> for
>> free any day!
>>
>> BTW, I am using a FT-1000MP and its internal tuner. Output shows
> 100
>> W.
>>
>> 73 de Barry - W4WB
>
> Sounds very interesting Barry, gain on 5 bands plus dipole
> performance plus on one boom for a extra 2 bands if i had the money
> i'd buy one now!! As VK2DPD showed with his homebrewed Hex, 8 bands
> is possible and as i need something for 40 and 30 as well its given
> me some more thoughts :)
>
> 73, Mark M5MDH
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>
>

>
Barry, I can't get my Mark V tuner to tune the HX on 40 or 30. Any ideas. 73
de Bob K2WY

357. HX-5B on 40

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-06 02:25:41 UTC
From: buzzmann555
Topic: 357 Message: 357

I have a vertical that I had been using to talk to my mom (KA5BOA) in San Antonio. For whatever reason, we had not been able to talk on 75 with the vertical for some months now. I switched antennas to the Hex Beam and used the tuner in my FT-1000MP and we now speak every day on 75. It also tunes on 40. I would never have thought when I purchased the HX-5B that it would also play on 40 and 75. Bonus!
Buzz--N5FTR

358. Non-resonant operations

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-06 04:10:58 UTC
From: wb6roh
Topic: 358 Message: 358

Tonight after the FARM Net closed on 3937, I called the net manager, W7VPK, in Fallon, Nevada. I am south of Los Angeles in Carson. After establishing contact with my usual tuned-feeder-fed 1/2 vertical 1/2 horizontal 60' doublet, I switched to the HX-5Bi. The report was equal or stronger on the Hex. The internal tuner in my FT-1000MP was able to establish a 1.8:1 VSWR as far as the rig was concerned. If I was going to do this on a regular basis, I would probably use one of my outboard tuners. I tried the phone portion of 40, but was not able get the internal tuner to stop hunting although with about 10 watts outI received readable reports from stations in W4 and W6.

Doug - WB6ROH

359. Re: 30 & 40 m Hex-Beaming with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-06 04:58:40 UTC
From: w4wb
Topic: 354 Message: 359

Hi Bob,
I have no idea. Perhaps yours is just outside of the range of the Mark V. I have the MP (plain type) as does Doug WB6ROH. I note that the Quadra will not load, but it is fussy. My AT-11 and RT-11 tuner would FB with it too.

If memory serves me right, Shin has a Mark V and gets it to load. Might ask him.

73 de Barry - W4WB

> >
> Barry, I can't get my Mark V tuner to tune the HX on 40 or 30. Any ideas. 73
> de Bob K2WY

360. Re: 30 & 40 m Hex-Beaming with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-06 05:02:38 UTC
From: w4wb
Topic: 354 Message: 360

Hi Mark,

Make that not 7 bands, but 8 bands. I have worked 6 m with it also using the FT-847 and FC-20 tuner. WAIT, Doug WB6ROH just email me that he has use his HX-5B on 80 m with good results! Make that 9 bands!

What's next? 160 m??? When will this madness end? hi hi

73 de Barry - W4WB

--- In hex-beam@y..., "m5mdh" <area_x1@y...> wrote:
>
> Sounds very interesting Barry, gain on 5 bands plus dipole
> performance plus on one boom for a extra 2 bands if i had the money
> i'd buy one now!! As VK2DPD showed with his homebrewed Hex, 8 bands
> is possible and as i need something for 40 and 30 as well its given
> me some more thoughts :)
>
> 73, Mark M5MDH

361. Hexbeam #201 arrived

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-07 23:16:52 UTC
From: wo8usa
Topic: 361 Message: 361

Well, Hexbeam #201 arrived Wednesday---folks at Traffie seem to be working overtime.

I do not believe any other antenna manufacturer would call you for 30 minutes on their nickel to tell you your antenna had just been shipped, and that if you do't like it, just ship it back for a refund.

Now I sure hope this antenna works! I plan to keep a log comparing the antenna with others I have and will provide the results here.

I will not likely get it up for a few weeks, but am hoping to be on the air for the March SSB contest. Hope to meet all on the net.

More to come--thanks to all who have posted install notes/etc here, I have saved them all.

73, Chris wo8usa

362. Re: [hex-beam] Hexbeam #201 arrived

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-07 23:49:22 UTC
From: Brad Sumner
Topic: 361 Message: 362

I also got mine #196 on Tuesday. Mike said they were pretty caught up
and maybe a little ahead of their shipping schedule.

Brad K0TRL

363. Best wishes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-07 23:56:17 UTC
From: Herbert Meiselman
Topic: 363 Message: 363

Hello to all:

Just got the email from WO8USA and I wish him good luck. The assembly is very easy, but I suggest two pairs of hands during the times the wire needs to be fastened to the arm "socket". Somewhat difficult to keep tension on the two ends and tighten the set screw...but easy with two people.

I don't know how high you plan to install the antenna, but if the SWR looks funny because it is too close to the roof, etc, then try some ferrite beads on the coax near the base of the antenna.

Mine is now working very, very well...just got two DX contacts that a friend with a tall dual quad was not able to catch.

73s,

Herb K6HJM

PS: Mike T. promises all of us a big lobster feed when we join him at the MA QTH (hi hi).

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

364. Re: [hex-beam] Hexbeam #201 arrived

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-08 00:19:53 UTC
From: Michael Melland
Topic: 361 Message: 364

I received my Hex yesterday and agree 100%. What a great bunch ! Mine is still in the box as I won't be able to get it in the air until spring..... or as soon as I can and the ground thaws <grin>.

Mike, W9WIS

365. What wimps!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-08 00:35:17 UTC
From: Herbert Meiselman
Topic: 365 Message: 365

I AM SHOCKED!

I always assumed that ham operators were tough, rugged individuals who were unstoppable in their desire for HF and DX. Given this deep-felt belief, I am amazed with the two latest comments by new Hex-Beam owners! Wait a few weeks? Too cold? After the thaw?

What is this world coming to anyway? We in Southern California are out working on antennas in the winter and summer. We ain't wimps!

Buck up guys and get going!!

73s and all the best,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

366. Re: [hex-beam] What wimps!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-08 00:39:25 UTC
From: Michael Melland
Topic: 365 Message: 366

> What is this world coming to anyway? We in Southern California are out
> working on antennas in the winter and summer. We ain't wimps!

Herb,

Just send me a chisel to dig past the frost line and I'll try. How cold can
it be for cement to set ? <grin>

Mike, W9WIS

367. Re: What wimps!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-08 00:55:05 UTC
From: w4wb
Topic: 365 Message: 367

Wait a minute now Herb, I seem to recall you wimping out because of a little bit of rain. :-)

FWIW, I urge each of you to install either the air balun (RF choke) or the W2DU-type balun (ferrite beads) when you erect your Hex-Beam. As Herb said, locate it at or just below the base of the Hex-Beam. See files and bookmarks for this site for more info.

73 de Barry - W4WB

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> I AM SHOCKED!
>
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>
> What is this world coming to anyway? We in Southern California are out working on antennas in the winter and summer. We ain't wimps!
>
> Buck up guys and get going!!
>
> 73s and all the best,
>
> Herb K6HJM
>

368. OK

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-08 01:20:16 UTC
From: Herbert Meiselman
Topic: 368 Message: 368

Well OK, maybe Barry is correct. I did not want to put the Hex-Beam up in the rain since Mike T. said this would frighten the antenna, thus rendering it unusable for the normal beautiful weather in So. California.

With regard to the ferrite beads, I got mine from Palomar Engineers in California. Their web address is: http://www.palomar-engineers.com/ The ones I used were model FSB-1/2 plus plastic "cages" or holders model FSB-1/2. The plastic covers are really nice since they hold the beads halves tightly together and also lock onto the 1/2" OD coax (RG-8). Takes longer to write about them to install them! By the way, Palomar also sells a bead "kit" with the same bead type plus shrink tubing to hold the assembly in place...cheaper, but you need to put it on the coax prior to soldering on the connector! That is, the coax goes through it and the beads are not split.

I am truly sorry if I offended any of the new Hex-Beam owners. It is just that we in the LA area are so macho that we assume all the rest of you are tough like us!

Again, 73s and best regards,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

369. Typo

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-08 01:25:20 UTC
From: Herbert Meiselman
Topic: 369 Message: 369

Sorry...the plastic covers from Palomar are model SBC-1/2.

Maybe Split Bead Cover = SBC?

Herb

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

370. No Storm Damage

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-08 07:10:54 UTC
From: David Douglass
Topic: 370 Message: 370

Well, summer in Australia and big chunks of ice falling from the sky and very high winds. Thankfully the homebrew Hex survived intact, even though there are a few bumps on the car roof.

I've just about finished the new centre post and have cut the elements for the individual feed system and hoping to give this a try within the next couple of weeks. Still managing to work some DX, and have a total of 7 new countries with the antenna in a little over 1 month.

Regards

David, VK2DPD
vk2dpd@...
vk2dpd@...

371. Hexbeam #203 arrived

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-08 17:43:03 UTC
From: bbadger
Topic: 371 Message: 371

I hope to fly it in the clear blue vacuum of Divide, Colorado tomorrow morning.

--
Brian N0KZ

372. Welcome!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-08 18:24:39 UTC
From: wb6roh
Topic: 372 Message: 372

To all of the new owners, welcome to the HEXBUS (Hex-beam Users Society). Sounds better than being a Hex Nut, doesn't it? See you on the air!

Doug - WB6ROH

373. Not so sure!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-08 18:37:33 UTC
From: Herbert Meiselman
Topic: 373 Message: 373

Hey...what's wrong with Hex Nut? Some of my best friends are .....

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

374. Re: Not so sure!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-08 20:46:51 UTC
From: wb6roh
Topic: 373 Message: 374

OK Herb. Effective immediately one must be a certifiable Hex-Nut to claim full membership in the HEXBUS. OK by you? Does this mean that the uniform of the day requires the wearing of toroidal jewelry and PL-259 shoulder boards?

Doug - WB6ROH

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> Hey...what's wrong with Hex Nut? Some of my best friends are .....
>
> Herb K6HJM
>
>
>
> Herbert J. Meiselman, ScD
> Professor and Vice-Chair
> Dept. Physiology and Biophysics
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> 1333 San Pablo Street, MMR 626
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> meiselma@h...

375. Re: [hex-beam] Re: Not so sure!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-08 21:23:55 UTC
From: Brad Sumner
Topic: 373 Message: 375

I think you California guys need a little Kansas ice to cool you off a bit. ! ! !

376. HEXtolling the HEX-BEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-09 06:17:34 UTC
From: w4wb
Topic: 376 Message: 376

Oh how HEXacerbated I was before my HEX-BEAM, HEXquisite in it's HEXhibition, HEXpanded my station's HEXiguous signal to a HEXent HEXceeding all my HEXacting HEXpectations. HEXcogitator, Mike Traffie, HEXploration of wire beam antennas resulted in the HEXtraordinary single-band HEX-BEAM that he soon found to be HEXtensible to five bands. How HEXuberant we were when VK2DPD found the HEX-BEAM has HEXtra bands capability! Now HEXtensive coverage from 6 to 80 m.

I don't HEXaggerate when I say I remain HEXcited about the HEX-BEAM. HEXactly how it works remains to be learned. From the hills of Massachusetts, where HEX cathedra resides, continues the HEXhilaration for this HEXcellent antenna.

If you are a HEXnut and enjoy "HEXing the DX," then be kind to others in the pile ups HEX aequo et bono until the HEXodus from the Yagi and the quad become HEXcessive!

73 es great DX,
Barry - W4WB

p.s. I promise not to do this again.

377. Re: [hex-beam] HEXtolling the HEX-BEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-09 06:56:19 UTC
From: David Douglass
Topic: 376 Message: 377

I always knew Americans were a bit potty!!

Regards

David, VK2DPD (Just worked 5U1A on 30M with the Hex)
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Saturday, February 09, 2002 6:17 AM
Subject: [hex-beam] HEXtolling the HEX-BEAM

Oh how HEXacerbated I was before my HEX-BEAM, HEXquisite in it's HEXhibition, HEXpanded my station's HEXiguous signal to a HEXent HEXceeding all my HEXacting HEXpectations. HEXcogitator, Mike Traffie, HEXploration of wire beam antennas resulted in the HEXtraordinary single-band HEX-BEAM that he soon found to be HEXtensible to five bands. How HEXuberant we were when VK2DPD found the HEX-BEAM has HEXtra bands capability! Now HEXtensive coverage from 6 to 80 m.

I don't HEXaggerate when I say I remain HEXcited about the HEX-BEAM. HEXactly how it works remains to be learned. From the hills of Massachusetts, where HEX cathedra resides, continues the HEXhilaration for this HEXcellent antenna.

If you are a HEXnut and enjoy "HEXing the DX," then be kind to others in the pile ups HEX aequo et bono until the HEXodus from the Yagi and the quad become HEXcessive!

73 es great DX,
Barry - W4WB

p.s. I promise not to do this again.

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[Non-text portions of this message have been removed]

378. Re: HEXtolling the HEX-BEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-09 07:32:49 UTC
From: w4wb
Topic: 376 Message: 378

Well done on the 5U1A David. I rather think many folks are being to think we are all a bit potty using the Hex-Beam on 6, 30, 40, and 80 m and making good contacts!

73,
Barry - W4WB
(p.s. I assume potty in Australian lingo is the same as the British, i.e., just slightly insane. :-))

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> I always knew Americans were a bit potty!!
>
> Regards
>
> David, VK2DPD (Just worked 5U1A on 30M with the Hex)

379. Re: [hex-beam] Re: HEXtolling the HEX-BEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-09 08:44:32 UTC
From: David Douglass
Topic: 376 Message: 379

Hi Barry,

I'm English so wouldn't know what term the Aussies would use (you wouldn't think it was the same language). As well as 5U1A also managed to work S9LA for another new one, so still going well with my 6 pieces of wood.

Regards

David
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Saturday, February 09, 2002 7:32 AM
Subject: [hex-beam] Re: HEXtolling the HEX-BEAM

Well done on the 5U1A David. I rather think many folks are being to
think we are all a bit potty using the Hex-Beam on 6, 30, 40, and 80
m and making good contacts!

73,
Barry - W4WB
(p.s. I assume potty in Australian lingo is the same as the British,
i.e., just slightly insane. :-))

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> I always knew Americans were a bit potty!!
>
> Regards
>
> David, VK2DPD (Just worked 5U1A on 30M with the Hex)

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[Non-text portions of this message have been removed]

380. Re: Hexbeam #203 arrived

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-10 00:54:27 UTC
From: bbadger
Topic: 371 Message: 380

Vacuum, yes. Clear, blue? No.

Hexbeam #203 flies. WX was 14F, 40mph wind, snow. A blizzard blew in while I was up on the roof. That's what you get when you live at 9200 feet. Because of average WX conditions, the beam will not fly more than 6 feet above my roof -- total height is 28 ft at the base of the beam (about 31 on 20m?)

Yes, my wife took a picture of the moron on the roof. I got to glissade down, which saved me some time.

So far, it has exceeded my expectations. Reports on 17m (my usual band) have the 5 watts from my FT-817 at 59+ coast to coast, with a huge front to back. We may have some future hexnuts out there -- people were very impressed with the gain and F/B. I dare say, I'm one of the loudest 817's alive. "Long live the double A's!"
--
Brian N0KZ

--- In hex-beam@y..., "bbadger" <bbadger@y...> wrote:
>
> I hope to fly it in the clear blue vacuum of Divide, Colorado tomorrow
> morning.
>
> --
> Brian N0KZ

381. Re: Hexbeam #203 arrived

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-10 01:35:57 UTC
From: w4wb
Topic: 371 Message: 381

True dedication there Brian! Congratulations on getting your HEX-BEAM up and working. Hope that I can work you sometime soon.

First contact with my HEX-BEAM was with a FT-817 also and it was with a station in Belgium.

QRP or QRO, the antenna works FB!

Oh yes, I'm sure your "roof" photos will be of interest to the group (also you might show the Hex-Beam). :-)

73 de Barry - W4WB

--- In hex-beam@y..., "bbadger" <bbadger@y...> wrote:
<snip> Hexbeam #203 flies. <snip>
> Yes, my wife took a picture of the moron on the roof. I got to
> glissade down, which saved me some time.
>
> So far, it has exceeded my expectations. Reports on 17m (my usual
> band) have the 5 watts from my FT-817 at 59+ coast to coast, with a
> huge front to back. We may have some future hexnuts out there --
> people were very impressed with the gain and F/B. I dare say, I'm
one of the loudest 817's alive. "Long live the double A's!"
> --
> Brian N0KZ
>

382. Re: Hexbeam #203 arrived

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-10 05:08:15 UTC
From: bbadger
Topic: 371 Message: 382

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> True dedication there Brian! Congratulations on getting your HEX-
> BEAM up and working.

The blizzard came 10 minutes into the 20 minutes I was on the roof. It was blue sky when I went up the ladder. I was tightening down the u-bolts on the rotator when the gusts and snow started. In other words -- I wasn't stupid so much as stuck.

My wife took a picture right before it got bad -- I've uploaded it to the photos section.

BTW: In the category "Fun with Hexbeams":

1) I've raised the local repeater on 2m using the Hex (good swr, wrong polarization -- acceptable as a backup, I guess)
2) I've watched TV on the Hex. (Yes, it is very directional on channels 3 though 12 -- but I can't get any UHF at my QTH, I live in the boonies)
3) I've tuned up on 30, 40, 75, 80. (Z-11 tuner)
4) 6m is resonant around 51mhz. Hope my TS-2000 (when I finally get it in) will be able to tune it up.

--
Brian N0KZ

383. Re: Hexbeam #203 arrived

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-10 06:10:13 UTC
From: wb6roh
Topic: 371 Message: 383

--- In hex-beam@y..., "bbadger" <bbadger@y...> wrote:
> --- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> > True dedication there Brian! Congratulations on getting your HEX-
> > BEAM up and working.
>
> The blizzard came 10 minutes into the 20 minutes I was on the
roof.
> It was blue sky when I went up the ladder. I was tightening down
the
> u-bolts on the rotator when the gusts and snow started. In other
> words -- I wasn't stupid so much as stuck.
>
> My wife took a picture right before it got bad -- I've uploaded it
to
> the photos section.
>
> BTW: In the category "Fun with Hexbeams":
>
> 1) I've raised the local repeater on 2m using the Hex (good swr,
> wrong polarization -- acceptable as a backup, I guess)
> 2) I've watched TV on the Hex. (Yes, it is very directional on
> channels 3 though 12 -- but I can't get any UHF at my QTH, I live
in
> the boonies)
> 3) I've tuned up on 30, 40, 75, 80. (Z-11 tuner)
> 4) 6m is resonant around 51mhz. Hope my TS-2000 (when I finally
get
> it in) will be able to tune it up.
>
> --
> Brian N0KZ

Great fortitude, Brian. Are you ready to use it on the designed
bands? Pick a time and frequency; 80 through 10 in my case.

73 - Doug - WB6ROH

384. Re: Hexbeam #203 arrived

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-10 06:10:33 UTC
From: w4wb
Topic: 371 Message: 384

Tnx for the photo Brian. However, you have gone too far now, using a
HEX-BEAM to watch TV! :-)

73 de Barry - W4WB

--- In hex-beam@y..., "bbadger" <bbadger@y...> wrote:
<snip>>
> BTW: In the category "Fun with Hexbeams":
>
> 1) I've raised the local repeater on 2m using the Hex (good swr,
> wrong polarization -- acceptable as a backup, I guess)
> 2) I've watched TV on the Hex. (Yes, it is very directional on
> channels 3 though 12 -- but I can't get any UHF at my QTH, I live
in
> the boonies)
> 3) I've tuned up on 30, 40, 75, 80. (Z-11 tuner)
> 4) 6m is resonant around 51mhz. Hope my TS-2000 (when I finally
get
> it in) will be able to tune it up.
>
> --
> Brian N0KZ

385. Grounding

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-10 13:22:57 UTC
From: wo8usa
Topic: 385 Message: 385

Being a group I trust, I will seek a little advice outside the normal Hexbeam conversation on station grounding.

I do not have easy access to a "straight path to a ground rod or water pipe". What types of internal station grounding setups are used in Hexbeam land? I am trying to decide if I want to make a more elaborate setup than just "unplug" (and when I unplug, what do I unplug into?). Most hams I know seem to put a lot of confidence in the arc plugs or simply a glass jar they stick all their cables into.

Also, for antenna grounding (I am hopeful my Hexbeam will not attact lightning!) does anyone use anything more than a good ground rod to the mast/tower? I do not have static problems but want to protect against the lightning strike. We have had many cases near Dayton of strikes in trees ending up in the house.

Any practical tips would be helpful. I do not want to start one of those theoretical arguments on lightning but some practical protection setups which people in the group have used.

Planning continues for #201----I may now wait for a blizzard like #203 got!

Chris wo8usa

386. Re: [hex-beam] Re: Hexbeam #203 arrived

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-10 14:18:22 UTC
From: George Franklin
Topic: 371 Message: 386

Hi Brian,

My TS-2000 will tune anything even remotely resembling an antenna on 6M
and the
other bands as well.

I've had my 2000 for over a year and really love the radio.

Wish I had a HexBeam!

73 de George/W0AV
Hamming since '35

.
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[Non-text portions of this message have been removed]

387. Re: Grounding

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-10 16:14:17 UTC
From: w4wb
Topic: 385 Message: 387

Hi Chris,

May I suggest that you read Chapter 1 in the ARRL Antenna Book. It is time-proven material on grounding and lightning protection.

It is fine to discuss this topic on this list (within reason of course), but you can get MORE help than you could ever want on TowerTalk (http://lists.contesting.com/_towertalk/). Just remember, the advise you RX is worth at least what you paid for it!

FWIW, I will offer a few comments. First regarding lightning protection. I am a paranoid about this matter because I have seen the power of a direct-bolt strike. No little device will shunt this force; however, they can divert a near-direct strike induced currents (EMP). My approach goes back over 40 years when my Dad and I would toss the coax out the window into the yard (connecters had covers). Some of my friend have massive plates to connect the coax to for grounding. Outside is OK, but those that do it inside are still perhaps playing with fire!

Ignoring lightning for a moment, the issue becomes electrical and RF grounding. This can be a tricky matter. In fact, in our area, it is a Code violation to use dual grounds (the AC power ground and your own ham shack ground) for certain safety reasons. I do use a dual system because I planned it out when I built by home. In my case, the ground for the AC power system is located about 8 feet from my shack floor. I have a LARGE line running from it to a ground buss on the shack floor. This forms the connection for the single-point ground of my equipment. My electrical panel for the house is not more than 20 electrical feet away as well. This arrangement effectively eliminates ground loops unlike at most QTHs where the ham shack ground is remote from the AC power ground (and also addresses the safety issue of our Code). Hope that made some sense. It is sort of like what is shown in Fig. 16 in the ARRL Antenna Book.

A real issue happens when you have a very long run to your ham shack ground. This is also a formula for those nasty and often noisy ground loops. The equipment is looking for a RF ground. Fig. 14 in the ARRL Antenna Book shows one solution. Another is to use something like the MFJ-931 in the ground line (as close to the equipment as possible) to create an artificial RF ground. See the instructions for the 931 (you can download from the MFJ web site if you are not familiar with this unit). Note that the 931 provides an RF ground path, NOT an AC power ground path.

BTW, don't forget to use either a coax air balun (RF choke) or ferrite beads on your coax near the base of the Hex-Beam to mitigate RF on the outside of your coax shield. I prefer either #77 or #73 material, but #43 works (just not as well IMO).

Hope to hear you on the air soon Chris. Perhaps a snow storm is on its way to you now!

73 de Barry - W4WB

--- In hex-beam@y..., "wo8usa" <wo8usa@y...> wrote:
> Being a group I trust, I will seek a little advice outside the
>normal Hexbeam conversation on station grounding.
> <snip>
> Any practical tips would be helpful. I do not want to start one of
> those theoretical arguments on lightning but some practical
> protection setups which people in the group have used.
>
> Planning continues for #201----I may now wait for a blizzard like
> #203 got!
>
> Chris wo8usa

388. SPLIT CORE TOROIDS

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-11 02:52:57 UTC
From: wb6roh
Topic: 388 Message: 388

Anyone needing split toroids for 1/2" coax (RG-8, RG-213 etc.) should check out www.allelectronics.com. Where Palomar and others get better than $5 each, All Electronics gets the following for their FB-47:

1-99 = $0.50 ea
100-219 = $0.35 ea
220-659 = $0.20 ea
660+ = $0.15 ea

A friend picked us up some this week. We ran impedance tests with a MFJ-259B today. Data is concurrent with that expected for a #43 mix. Results are as follows with a single core and a single pass:

7 MHz = 78
14 MHz = 115
25 MHz = 173
100MHz = 144

I do not know if they have the nylon clip on covers. One easy trick to install these is to super glue their faces together. Make sure you get good facial alignment and exclude your fingers! You can leave them as is with a tie-wrap above and below the stack, tape them up or whatever pleases you. 5 or 6 of these stacked single pass on 1/2" coax will give you more than adequate common mode choking capacity.

73 - Doug - WB6ROH

389. New Look

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-14 05:24:00 UTC
From: w4wb
Topic: 389 Message: 389

I have made an effort to improve the look of the home page for this Group in order to make it a bit more informational for new folks. Please let me know if you have any suggestions. I will likely change out photos from time-to-time if you have loaded yours into the Photos area.

I don't know about you, but I have been working a lot of good DX lately. Today, I got H40T (SSB)and 5T5PBV (CW). In the past few days I worked BY, UN, JT, 5U, 7X, 9Q, 3DA0, TF and that hot one, S07U (and hoping they have their paperwork proper this time so it will count for DXCC). All were worked on one or two calls with the exception of S07U on SSB. He had an odd tuning pattern and it took me a bit to sort it out plus four attempts.

Comparing the performance of the FT-1000MP with the HEX-BEAM to the FT-847 with a Titan vertical, it is no contest. Often I can easily work a DX station with the MP and HB, while not even hearing the DX station on my other station. I have these two stations about 4 miles apart.

73 de Barry - W4WB

390. H40T

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-14 05:56:05 UTC
From: Meiselman
Topic: 390 Message: 390

Hello to all:

Yep, even little ole me in LA got the H40T on the HB. Not bad considering the mountains behind my house.

I have been amazed regarding the amount of "RF current" flowing to my earth ground after I installed the MFJ-931. This is most notable on 20, 17 and 15 meters, whereas almost none is indicated on 10 meters. I have no idea if it helps with the signal getting out, but it can't hurt. Plus, the MFJ-931 provided another box with 3 knobs and a meter...and the needle on the meter moves when I talk. What more could I ask for?

73s,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

391. Typo

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-15 08:20:58 UTC
From: jr1nhd_shin
Topic: 369 Message: 391

Hi Barry

It is nice looking at the opening of Homepage. However I hope you willcorrect the last letter of my suffix from B to D. It is a small thing. BTW, next issue of "59" magazine in Japan will be a good exposure of this beam among JA DXers. It will have my posting about HX-5Bi. I will send one copy each to you and Mike.

I have recently worked VP8, 5U, H40, GD, 3V etc.but S0 and S9 were very far from my barefoot rigs even with this beam. I missed P5 on 20m RTTY last night too. You are far too good, Barry!!

73-JR1NHD Shin

392. Re: Typo (fixed)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-15 14:12:46 UTC
From: w4wb
Topic: 369 Message: 392

Hi Shin,
Your call sign is fixed on the photo now. I am very sorry for the error. At least I had it correct in the text. Am looking forward to seeing "59." Thank you in advance.

Good DXing Shin. The S0 listens from time-to-time just for JA stations, but even then, there is a pile up. ALso, they can not operate from about 0000Z to 0600Z I heard him say yesterday due to local restrictions on power. Their signal is better than the 3V fellow's signal (think he is QRP), but well below the 9Q,5U or S9 guys. Good luck. We have difficulty with the P5 here. His operating time is not so good for propagation match from my QTH. Have heard him a few times, but weak. Have not tried him since he got the better antenna up. At our DX Club meeting, I think just one person (battleship station) has had a QSO with him.

Hope to hear you on the air again soon.
73 de Barry - W4WB

--- In hex-beam@y..., "jr1nhd_shin" <jr1nhd@m...> wrote:
> Hi Barry
>
> It is nice looking at the opening of Homepage. However I hope you
> willcorrect the last letter of my suffix from B to D. It is a small
> thing. BTW, next issue of "59" magazine in Japan will be a good
> exposure of this beam among JA DXers. It will have my posting
> about HX-5Bi. I will send one copy each to you and Mike.
>
> I have recently worked VP8, 5U, H40, GD, 3V etc.but S0 and S9 were
> very far from my barefoot rigs even with this beam. I missed P5 on
> 20m RTTY last night too. You are far too good, Barry!!
>
> 73-JR1NHD Shin

393. Re: Typo (fixed)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-15 14:29:22 UTC
From: jr1nhd_shin
Topic: 369 Message: 393

Hi Barry,

No, No, JR1NHD is correct, not NHB, hi. I received 59 magazine today
which has a nice article about my Hexbeam, not only inside but also
a photo on the preface of the issue!! You will be pleased to see it.

73 de JR1NHD Shin

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Hi Shin,
> Your call sign is fixed on the photo now. I am very sorry for the
> error. At least I had it correct in the text. Am looking forward
to
> seeing "59." Thank you in advance.
>

394. Re: Typo (fixed correctly)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-15 15:30:28 UTC
From: w4wb
Topic: 369 Message: 394

Hi Shin,

Now I got it right I hope. hi hi Great news about the article.

73 de Barry - W4WB

--- In hex-beam@y..., "jr1nhd_shin" <jr1nhd@m...> wrote:
> Hi Barry,
>
> No, No, JR1NHD is correct, not NHB, hi. I received 59 magazine
today
> which has a nice article about my Hexbeam, not only inside but also
> a photo on the preface of the issue!! You will be pleased to see
it.
>
> 73 de JR1NHD Shin
>

395. I can do it too!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-15 18:23:36 UTC
From: Herbert Meiselman
Topic: 395 Message: 395

Dear All:

Well, in spite of Barry's proud achievements, we should not forget that other owners of HB antennas can also do some DX. In fact, some of us who are "antenna challenged" can play with the big boys (and girls)! Thus, even though "yours is bigger/taller than mine", remember it ain't what ya got but how ya use it.

Given the above, I am pleased to announce that the Meiselman Medal of Merit (MMM) has been awarded to me: worked JW7VK (Svalbard) yesterday and both EY8MM (Tajikistan) and 9Q1A (Congo) today. Even got a 59+ from 9Q1A.

Sincere thanks to Barry, Doug and others for making it possible for me to be awarded the prestigious MMM Award.

73s

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

396. MMM

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-15 18:35:06 UTC
From: wb6roh
Topic: 396 Message: 396

Shall the rest us HexNuts presume that Herb has qualified for the prestigious MMM award because he christened his MFJ-931 and toroids with a fine vintage California wine? Shall we also presume that he plans on making this award available to other HEXBUS HexNuts who operate with handicaps such as low power, low antenna heights, educational handicaps, having to work for a living, being vertically challenged or horizontally enhanced, etc?

Doug - WB6ROH

397. Five Nine Magazine

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-15 21:46:36 UTC
From: jr1nhd_shin
Topic: 397 Message: 397

It's me again,

I need to correct my word. Hexbeam photo is shown on the front oever of March issue. I will take a photo (no scanner here, hi) and post it later. Good DXing y'all!!

73-JR1NHD Shin

398. Re: Five Nine Magazine

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-15 22:38:26 UTC
From: jr1nhd_shin
Topic: 397 Message: 398

Hi,

I poseted a photo...very first exposure in JA!!

73 de JR1NHD

--- In hex-beam@y..., "jr1nhd_shin" <jr1nhd@m...> wrote:
> It's me again,
>
> I need to correct my word. Hexbeam photo is shown on the front
oever
> of March issue. I will take a photo (no scanner here, hi) and post
> it later. Good DXing y'all!!
>
> 73-JR1NHD Shin

399. Re: [hex-beam] MMM

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-15 22:57:03 UTC
From: Herbert Meiselman
Topic: 396 Message: 399

Dear Fellow Hex-Beam Owners:

The message below saddens me greatly, and I am thus moved to respond. I trust that many of you will join with me in order to help WB6ROH regain a sense of well-being and a more positive outlook on life.

As is clear from the message from WB6ROH, he suffers from an extreme case of "Antenna Envy". As you know, Dr. Sigmund Freud worked on a similar problem with his patients. However, Freud was only concerned with this single type of illness, and not with a combination of both Antenna Envy and MMM Envy.

I wish to assure WB6ROH that, in fact, he is eligible for the MMM Award. However, the road is long and difficult, and many hours of intense therapy are needed. Do not give up hope...the MMM could be yours someday!

With best hopes for a speedy and complete recovery.

K6HJM
At 06:35 PM 2/15/02 +0000, you wrote:
>Shall the rest us HexNuts presume that Herb has qualified for the
>prestigious MMM award because he christened his MFJ-931 and toroids
>with a fine vintage California wine? Shall we also presume that he
>plans on making this award available to other HEXBUS HexNuts who
>operate with handicaps such as low power, low antenna heights,
>educational handicaps, having to work for a living, being vertically
>challenged or horizontally enhanced, etc?
>
>Doug - WB6ROH
>
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>To unsubscribe from this group, send an email to:
>hex-beam-unsubscribe@yahoogroups.com
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California

Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

400. Re: [hex-beam] MMM

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-16 00:12:52 UTC
From: Brad Sumner
Topic: 396 Message: 400

It's finally happened....you California guys have apparently fallen from your surf boards and hit you heads on something.

Hope to hear y'alll on the net tomorrow.

Brad K0TRL

401. Re: MMM

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-16 00:20:23 UTC
From: wb6roh
Topic: 396 Message: 401

Given that the majority of my personal DXCC friends believe that to run in excess of 100 watts is "morally illegal," I shall presume that one must subsidize the local utility company heavily to expeditiously qualify for the MMM (Meiselman's Maximized Megawatt)Award. Given that I already have DXCC x 2 plus, I will radiate forward with morally legal ERP enhanced by an appliance recognized for its ability to Hex all naysayers. Power to the "little pistols!"

Why Buy 6s Rely On Homebrew ('70s)
WB6 Rotten' Ole Ham (Y2K)

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> Dear Fellow Hex-Beam Owners:
>
> The message below saddens me greatly, and I am thus moved to respond. I
> trust that many of you will join with me in order to help WB6ROH regain a
> sense of well-being and a more positive outlook on life.
>
> As is clear from the message from WB6ROH, he suffers from an extreme case
> of "Antenna Envy". As you know, Dr. Sigmund Freud worked on a similar
> problem with his patients. However, Freud was only concerned with this
> single type of illness, and not with a combination of both Antenna Envy and
> MMM Envy.
>
> I wish to assure WB6ROH that, in fact, he is eligible for the MMM
> Award. However, the road is long and difficult, and many hours of intense
> therapy are needed. Do not give up hope...the MMM could be yours someday!
>
> With best hopes for a speedy and complete recovery.
>
> K6HJM
> At 06:35 PM 2/15/02 +0000, you wrote:
> >Shall the rest us HexNuts presume that Herb has qualified for the
> >prestigious MMM award because he christened his MFJ-931 and toroids
> >with a fine vintage California wine? Shall we also presume that he
> >plans on making this award available to other HEXBUS HexNuts who
> >operate with handicaps such as low power, low antenna heights,

> >educational handicaps, having to work for a living, being
vertically
> >challenged or horizontally enhanced, etc?
> >
> >Doug - WB6ROH
> >
> >
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> Dept. Physiology and Biophysics
> University of Southern California
> Keck School of Medicine
> 1333 San Pablo Street, MMR 626
> Los Angeles, CA 90033
> (323) 442-1268
> (323) 442-2283 [FAX]
> meiselma@h...
>
> [Non-text portions of this message have been removed]

402. Rest my case

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-16 00:40:12 UTC
From: Herbert Meiselman
Topic: 402 Message: 402

Based upon the latest outpouring from WB6ROH....I rest my case!

73s,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

403. MMM & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-16 03:45:57 UTC
From: w4wb
Topic: 402 Message: 403

Hey Herb, I think you need a strong case of SWR -- Severe Wine Rationing. :-)

MMM indeed! hi hi

73 de Barry - W4WB

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> Based upon the latest outpouring from WB6ROH....I rest my case!
>
> 73s,
>
> Herb K6HJM

404. Re: Five Nine Magazine

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-16 03:48:00 UTC
From: w4wb
Topic: 397 Message: 404

Way to go Shin! Looks excellent. Are you going to translate it for
us or is it back to my Japanese dictionary again? :-(
73 de Barry - W4WB

--- In hex-beam@y..., "jr1nhd_shin" <jr1nhd@m...> wrote:
> Hi,
>
> I poseted a photo...very first exposure in JA!!
>
> 73 de JR1NHD
>

405. Re: Five Nine Magazine

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-16 07:13:54 UTC
From: wb6roh
Topic: 397 Message: 405

Congratulations, Shin. We look forward to seeing the article.

73 - Doug - WB6ROH

> Hi,
>
> I poseted a photo...very first exposure in JA!!
>
> 73 de JR1NHD
>
> --- In hex-beam@y..., "jr1nhd_shin" <jr1nhd@m...> wrote:
> > It's me again,
> >
> > I need to correct my word. Hexbeam photo is shown on the front
> oever
> > of March issue. I will take a photo (no scanner here, hi) and
post
> > it later. Good DXing y'all!!
> >
> > 73-JR1NHD Shin

406. New poll for hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-18 13:28:52 UTC
From: hex-beam@yahoogroups.com
Topic: 406 Message: 406

Enter your vote today! A new poll has been created for the
hex-beam group:

Of antennas you have owned (or built),
how do you rate the HEX-BEAM's
performance,
installation/operation/maintenance
(IOM), and
stealth?
Installation/operation/maintenance
means ease of installing the antenna,
costs, how well it behaves once up, and
how much effort is needed to keep it
working and up in the air. Stealth
refers to footprint on the ground, and
spouse's and neighbors'tolerance to the
antenna. Please vote for only one
choice in each of the three topics.

o Performance: Excellent
o Performance: Above Average
o Performance: Average
o Performance: Below Average
o Performance: Poor
o IOM: Excellent
o IOM: Above Average
o IOM: Average
o IOM: Below Average
o IOM: Poor
o Stealth: Excellent
o Stealth: Above Average
o Stealth: Average
o Stealth: BelowAverage
o Stealth: Poor

To vote, please visit the following web page:

http://groups.yahoo.com/group/hex-beam/polls

Note: Please do not reply to this message. Poll votes are
not collected via email. To vote, you must go to the Yahoo! Groups
web site listed above.

Thanks!

407. Poll

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-18 13:33:38 UTC
From: w4wb
Topic: 407 Message: 407

A poll is being taken in the Polls Area of this site. Question is as follows:

"Of antennas you have owned (or built), how do you rate the HEX-BEAM's performance, installation/operation/maintenance (IOM), and stealth? Installation/operation/maintenance means ease of installing the antenna, costs, how well it behaves once up, and how much effort is needed to keep it working and up in the air. Stealth refers to footprint on the ground, and spouse's and neighbors'tolerance to the antenna. Please vote for only one choice in each of the three topics."

Results are provided in real-time to you.

Tnx es 73 de Barry - W4WB

408. Little pistol Hexs another one.....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-19 03:35:01 UTC
From: wb6roh
Topic: 408 Message: 408

9N7RB, in the middle of 28495's QRM alley on 10 meters simplex, was S0 / 4x4. Hexed him with 100 watts for a 3x3. I'll take that any day!

Doug - WB6ROH

409. PW0T + 4L1DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-19 23:45:40 UTC
From: w4wb
Topic: 409 Message: 409

Good shooting Doug. Today, I worked PW0T on 12 and 15 m. Seems that he is having huge QRM from all of the stations calling him (his statement). He often works the upper end of the pile and this is why the pile keeps expanding in bandwidth! Once I realized what he was doing, I got him on the second call on 12 m and one call on 15 m. They are there for 9 more days, so lots of time to work'em on 5 or more bands.

Also, got a fellow in Georgia (the 4L type) today on 20 m SSB with one call and a 59+ report.

73,
Barry - W4WB

410. Poll - Please Read

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-19 23:52:19 UTC
From: w4wb
Topic: 410 Message: 410

Doom on me! I went to look at the results of the poll questions and clicked on the wrong button. Result is that it cleared the poll data to date.

My apologies to you all for my error.

If you have voted, PLEASE resubmit your votes again. Nine folks had voted.

73 de Barry - W4WB

411. You must be kidding!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-20 01:19:11 UTC
From: Herbert Meiselman
Topic: 411 Message: 411

Barry:

I can not believe the email you just sent to the HB group!

I worked my a-s off trying to respond to the poll, only to have the results of my efforts lost to the world. What a shock! Why did I do all of the research, data analysis, log reviewing, not to mention beer drinking, when my input was summarily rejected.

I guess it is OK for you big guys to devote almost all of your time to RF and ham radio, but I do not have that luxury...sometimes I need to eat and sleep and even say hello to my wife and kids.

Please let me know when it is safe to re-send data to your QTH.

Herb

PS: What poll?

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

412. comments on the poll

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-20 21:49:15 UTC
From: n6tz
Topic: 412 Message: 412

Maybe I voted a little lower than the average did, but that is not to be interpreted as a criticism. I think Mike T. has done an outstanding job of developing the Hex. I also think that it would still sell like hotcakes based on the fact that it is a "darn good" two element compact design that deserves a good piece of the market share. It does not need to be promoted, supported, or acclaimed with "snowflake", "supergain", or "Holy inspired" types of adjetives. The advantages of this antenna speak for themselves when they are shown to Hams that are first looking at it. I have others looking seriously at it just from the facts of:

1. $140 push-up mast and guy wire for 40 feet.
2. $100 for rotator and control cable.
3. 20 pounds (9 kG.) of weight. (30 with rotator)
4. 9.4 feet (2.8 M.) turning radius.
5. Reasonable two element performance on 5 bands.

The only criticism I find are comments that "it looks like a broken umbrella".....but that is impossible to avoid.

So go for it Mike T., start promoting it with the facts and leave the fancy terminology along. Hams are leary of too much fancy promotion.

Hal, N6TZ

413. Help!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-20 22:08:51 UTC
From: Herbert Meiselman
Topic: 413 Message: 413

Believe it or not, I made the second mistake in my life (the first was when I said I was wrong and wasn't).

I have misplaced the voting instructions for the HB poll. Anyone care to send them to me?

Thanks!

73s

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

414. Re: Help!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-20 22:10:51 UTC
From: wb6roh
Topic: 413 Message: 414

Herb,

Click on "POLLS" on the bottom left menu item and follow the
instructions that come up.

Doug - WB6ROH

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> Believe it or not, I made the second mistake in my life (the first
was when
> I said I was wrong and wasn't).
>
> I have misplaced the voting instructions for the HB poll. Anyone
care to
> send them to me?
>
> Thanks!
>
> 73s
>
> Herb K6HJM
>
>
>
> Herbert J. Meiselman, ScD
> Professor and Vice-Chair
> Dept. Physiology and Biophysics
> University of Southern California
> Keck School of Medicine
> 1333 San Pablo Street, MMR 626
> Los Angeles, CA 90033
> (323) 442-1268
> (323) 442-2283 [FAX]
> meiselma@h...

415. Re: [hex-beam] Re: Help!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-20 22:37:26 UTC
From: Herbert Meiselman
Topic: 413 Message: 415

Click on "POLLS" where?

Herb

At 10:10 PM 2/20/02 +0000, you wrote:
>Herb,
>
>Click on "POLLS" on the bottom left menu item and follow the
>instructions that come up.
>
>Doug - WB6ROH
>
>
>
>--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> > Believe it or not, I made the second mistake in my life (the first
>was when
> > I said I was wrong and wasn't).
> >
> > I have misplaced the voting instructions for the HB poll. Anyone
>care to
> > send them to me?
> >
> > Thanks!
> >
> > 73s
> >
> > Herb K6HJM
> >
> >
> >
> > Herbert J. Meiselman, ScD
> > Professor and Vice-Chair
> > Dept. Physiology and Biophysics
> > University of Southern California
> > Keck School of Medicine
> > 1333 San Pablo Street, MMR 626
> > Los Angeles, CA 90033
> > (323) 442-1268
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

416. Re: Help!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-20 23:12:00 UTC
From: wb6roh
Topic: 413 Message: 416

Look in the box to the immediate left of the home page photos. Click
on "polls."

Doug

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> Click on "POLLS" where?
>
> Herb
>
> At 10:10 PM 2/20/02 +0000, you wrote:
> >Herb,
> >
> >Click on "POLLS" on the bottom left menu item and follow the
> >instructions that come up.
> >
> >Doug - WB6ROH
> >
> >
> >
> >--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> > > Believe it or not, I made the second mistake in my life (the
first
> >was when
> > > I said I was wrong and wasn't).
> > >
> > > I have misplaced the voting instructions for the HB poll.
Anyone
> >care to
> > > send them to me?
> > >
> > > Thanks!
> > >
> > > 73s
> > >
> > > Herb K6HJM
> > >
> > >
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> > > Herbert J. Meiselman, ScD
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> > > Dept. Physiology and Biophysics
> > > University of Southern California
> > > Keck School of Medicine
> > > 1333 San Pablo Street, MMR 626

> > > Los Angeles, CA 90033
> > > (323) 442-1268
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> University of Southern California
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> 1333 San Pablo Street, MMR 626
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> meiselma@h...
>
> [Non-text portions of this message have been removed]

417. Participating in the Poll

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-20 23:27:22 UTC
From: w4wb
Topic: 417 Message: 417

If you only receive the digest or emails from the posts, you have to go the Yahoo! site http://groups.yahoo.com/group/hex-beam and sign in to vote in the poll. Then click on "Polls" in the left panel. Next click on the question and follow the instructions.

Tnx,
Barry - W4WB

418. Thanks Barry!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-21 00:07:50 UTC
From: Herbert Meiselman
Topic: 418 Message: 418

Hello again from LA!

I did go to the proper Yahoo web site and did vote in the poll. Also looked at the photos.

MY QUESTION: how do I get a HB with the bright red and yellow wires? Bet my wife and neighbors would love this new addition to their skyline.

Herb

PS: worked YO3ZA last night...first Romania for me!

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

419. Re: [hex-beam] PW0T + 4L1DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-21 11:05:02 UTC
From: David Douglass
Topic: 409 Message: 419

Hi Guys,

It would appear that anything you guys can do I can also manage with my environmentally friendly Hex, as I worked PW0T on 17M this evening (even if it was on SSB). Even managed a VP2M on 30M, so the out of band DX is still going well. If anyone hears TI9M, tell him to point his beam to the Great Brown Land, as not hearing him yet.

Regards to all

David, VK2DPD
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Tuesday, February 19, 2002 11:45 PM
Subject: [hex-beam] PW0T + 4L1DX

Good shooting Doug. Today, I worked PW0T on 12 and 15 m. Seems that he is having huge QRM from all of the stations calling him (his statement). He often works the upper end of the pile and this is why the pile keeps expanding in bandwidth! Once I realized what he was doing, I got him on the second call on 12 m and one call on 15 m. They are there for 9 more days, so lots of time to work'em on 5 or more bands.

Also, got a fellow in Georgia (the 4L type) today on 20 m SSB with one call and a 59+ report.

73,
Barry - W4WB

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[Non-text portions of this message have been removed]

420. Re: PW0T + 4L1DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-21 14:30:14 UTC
From: w4wb
Topic: 409 Message: 420

Hi David,

Well done. The PY0T pile-ups are just chewing up the bandwidth! The TI9M operation is having a hard go of it presently. They had to operate on batteries at 50 W and then they went flat during the night. The park rangers have told them OK on now running a generator at night IF the noise isn't too bad. They have had to split the operation into two areas and it is VERY difficult to get the equipment to the 2nd operating area. The size of the beach originally planned was greatly reduced from what it had been. Give them some time and I'm sure you will get through. Good ops on the team.

An "environmentally friendly Hex?" What have you done now, painted it green? Thought it was silver painted. ;-)

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi Guys,
>
> It would appear that anything you guys can do I can also manage with my environmentally friendly Hex, as I worked PW0T on 17M this evening (even if it was on SSB). Even managed a VP2M on 30M, so the out of band DX is still going well. If anyone hears TI9M, tell him to point his beam to the Great Brown Land, as not hearing him yet.
>
> Regards to all
>
> David, VK2DPD

421. Ferrite Baluns

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-22 00:17:04 UTC
From: n6tz
Topic: 421 Message: 421

Question for the Group:
Where, or how close to the PL-259 have some of you placed the Ferrite Balun beads on the coax. I ordered the BA-8 kit and wonder just where some have placed it on the 5 band Hex.
Hal N6TZ

422. Re: Ferrite Baluns

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-22 00:25:32 UTC
From: w4wb
Topic: 421 Message: 422

Hi Hal,
Try to locate them together scuh that they are just below the antenna's baseplate. If you or anyone else needs these beads, All Electronics has them surplus for 50 cents each.
73 de Barry - W4WB

--- In hex-beam@y..., "n6tz" <halw@s...> wrote:
> Question for the Group:
> Where, or how close to the PL-259 have some of you placed the Ferrite
> Balun beads on the coax. I ordered the BA-8 kit and wonder just
> where some have placed it on the 5 band Hex.
> Hal N6TZ

423. Ferrite beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-22 01:20:32 UTC
From: Herbert Meiselman
Topic: 423 Message: 423

I did not order the kit from Palomar Engineers, but rather 5 of their 1/2 inch split ferrite cubes (FSB-1/2). Also ordered the plastic cages that fit each cube and allow it to be positioned and clamped on the 1/2 inch coax.

As much as I hate to agree with Barry...he is right! Put the beads (or the kit) just below the baseplate of the HB such that the beads or kit are not parallel to any of the antenna wires. This is easy to do since the coax comes down the center post, over the top of the baseplate, then at an angle to the mast inserted into the bottom of the baseplate. Just put the beads/kit on the sloping coax immediately below the baseplate.

My HB continues to work very well, although I have discovered a small problem: if it is not connected to the transceiver it does not provide signals to that transceiver! This morning I was trying to hear some DX spots and got nothing...then I realized that the antenna switch was turned to my 40-80 dipole. Perhaps we can discuss this problem next Saturday?

73s, Herb K6HJM

PS: After turning the switch I got a new one...Moldavia! EK1QQ

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

424. Hex Problem

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-22 06:46:34 UTC
From: David Douglass
Topic: 424 Message: 424

I think I've discovered a serious flaw with the Hex Beam. Mine seems to prefer SSB to CW and I've just worked TI9M on that mode. For some reason I seem to be hearing more DX on that mode than the more refined CW.

Obviously this is something I may have to complain to the manufacturer about!

David, VK2DPD (M0DPD)
vk2dpd@...
vk2dpd@...

425. Re: [hex-beam] Hex Problem

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-22 07:41:23 UTC
From: Hisashi T Fujinaka
Topic: 424 Message: 425

Check out some of the beam books by Orr and you'll find that you want to tune your beam "low" to keep the reflector looking like a reflector and not like a director.

Checking out the simulations of small beams on www.cebik.com shows that the hex simulates to be a 2-element beam with a fairly limited bandwidth, so your experience doesn't surprise me.

On Fri, 22 Feb 2002, David Douglass wrote:

> I think I've discovered a serious flaw with the Hex Beam. Mine seems to
> prefer SSB to CW and I've just worked TI9M on that mode. For some reason I
> seem to be hearing more DX on that mode than the more refined CW.
>
> Obviously this is something I may have to complain to the manufacturer
> about!
>
> David, VK2DPD (M0DPD)
> vk2dpd@...
> vk2dpd@...
>
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

--
Hisashi T Fujinaka - htodd@...
BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte

426. Re: Hex Problem - oh yeah?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-22 13:27:20 UTC
From: w4wb
Topic: 424 Message: 426

Hi Hisashi,

I think David was saying his "complaint" with a bit of humor.

The TI9M boys have now solved most of their problems, have 2 amps on line, 5 HF stations and a 6-m station up. Concentration will now be a lot on SSB they stated in a recent message I read.

My HX-5B is tuned for CW, but works FB on the phone portion too where most of the DX is located. The performance curves in Traffie's brochure appear to reflect more of the operational performance I experience than do any of the simulations I have seen including LB's report.

Hey David, if you really feel bad about using SSB to contact TI9M, don't QSL. ;-)

Keep those reports coming from the "Great Green DXing Machine" from Down Under!

73 de Barry - W4WB

--- In hex-beam@y..., Hisashi T Fujinaka <htodd@t...> wrote:
> Check out some of the beam books by Orr and you'll find that you want to tune your beam "low" to keep the reflector looking like a reflector and not like a director.
>
> Checking out the simulations of small beams on www.cebik.com shows that the hex simulates to be a 2-element beam with a fairly limited bandwidth, so your experience doesn't surprise me.
>
> On Fri, 22 Feb 2002, David Douglass wrote:
>
> > I think I've discovered a serious flaw with the Hex Beam. Mine seems to prefer SSB to CW and I've just worked TI9M on that mode. For some reason I seem to be hearing more DX on that mode than the more refined CW.
> >
> > Obviously this is something I may have to complain to the manufacturer about!
> >
> > David, VK2DPD (M0DPD)
> > vk2dpd@q...
> > vk2dpd@b...
> >
> >
> >

> >
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> > hex-beam-unsubscribe@y...
> >
> >
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http://docs.yahoo.com/info/terms/
> >
> >
>
> --
> Hisashi T Fujinaka - htodd@t...
> BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte

427. Silly idea!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-22 18:06:57 UTC
From: Herbert Meiselman
Topic: 427 Message: 427

Belive it or not, I had an idea!

Would there be any value in my stopping by All Electronics, buying a bunch of the cheap ferrite beads, then sending them off to the poor souls who do not live in LA? I'm not sure it would be worth it for foreign HB users (high postage costs), but maybe in the states?

Since the beads are so cheap at All...no charge for this service (maybe I can bill the domestic postage to my university?).

73s,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

428. Re: [hex-beam] Re: Hex Problem - oh yeah?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-22 23:01:53 UTC
From: David Douglass
Topic: 424 Message: 428

Barry,

I suppose your correct, any mode is better than none, but would like to get them on CW.

Not sure what is happening but Central America is usually a pretty good path from here but there signals are terrible, I can hear them on 15/12/10M at the moment but no better than about S2. Oh well still a while to go so may get them again before they head off.

Regards

David, VK2DPD
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Friday, February 22, 2002 1:27 PM
Subject: [hex-beam] Re: Hex Problem - oh yeah?

Hi Hisashi,

I think David was saying his "complaint" with a bit of humor.

The TI9M boys have now solved most of their problems, have 2 amps on line, 5 HF stations and a 6-m station up. Concentration will now be a lot on SSB they stated in a recent message I read.

My HX-5B is tuned for CW, but works FB on the phone portion too where most of the DX is located. The performance curves in Traffie's brochure appear to reflect more of the operational performance I experience than do any of the simulations I have seen including LB's report.

Hey David, if you really feel bad about using SSB to contact TI9M, don't QSL. ;-)

Keep those reports coming from the "Great Green DXing Machine" from Down Under!

73 de Barry - W4WB

--- In hex-beam@y..., Hisashi T Fujinaka <htodd@t...> wrote:
> Check out some of the beam books by Orr and you'll find that you want to tune your beam "low" to keep the reflector looking like a reflector and not like a director.
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> Checking out the simulations of small beams on www.cebik.com shows that the hex simulates to be a 2-element beam with a fairly limited bandwidth, so your experience doesn't surprise me.
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> On Fri, 22 Feb 2002, David Douglass wrote:
>
> > I think I've discovered a serious flaw with the Hex Beam. Mine seems to prefer SSB to CW and I've just worked TI9M on that mode. For some reason I seem to be hearing more DX on that mode than the more refined CW.
> >
> > Obviously this is something I may have to complain to the manufacturer about!
> >
> > David, VK2DPD (M0DPD)
> > vk2dpd@q...
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> BSEE (6/86) + BSChem (3/95) + BAEnglish (8/95) + $2.50 = mocha latte

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[Non-text portions of this message have been removed]

429. Re: SPLIT CORE TOROIDS

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-23 03:08:51 UTC
From: k0trl
Topic: 388 Message: 429

Hi Doug

I got my split beads from All Electronics and put together a test setup as you described in a previous e-mail. I compared the results to a split bead from Palomar that I had received in their RFI kit. My result proved your point that the beads are substantially the same and cost significantly less, however I got some different reactance readings. Mine are:

Mhz Yours AllElectronics Palomar
7 78 79 60
14 115 101 99
25 173 111 134
100 144 143 139

The big difference in my readings seems to be at 25 Mhz. Also interesting is your 25 Mhz reading of 173 which is quite a bump in the curve. I used about 8 inches of #22 stranded and insulated wire through the bead held together with plastic tape between the meter ground and the banana plug in the center of the coax connector.

I don't know that it matters much but maybe you or someone can suggest why the difference.

--- In hex-beam@y..., "wb6roh" <wb6roh@a...> wrote:
> Anyone needing split toroids for 1/2" coax (RG-8, RG-213 etc.) should
> check out www.allelectronics.com. Where Palomar and others get better
> than $5 each, All Electronics gets the following for their FB-47:
>
> 1-99 = $0.50 ea
> 100-219 = $0.35 ea
> 220-659 = $0.20 ea
> 660+ = $0.15 ea
>
> A friend picked us up some this week. We ran impedance tests with a
> MFJ-259B today. Data is concurrent with that expected for a #43 mix.
> Results are as follows with a single core and a single pass:
>
> 7 MHz = 78
> 14 MHz = 115
> 25 MHz = 173
> 100MHz = 144
>
> I do not know if they have the nylon clip on covers. One easy trick

> to install these is to super glue their faces together. Make sure
you
> get good facial alignment and exclude your fingers! You can leave
> them as is with a tie-wrap above and below the stack, tape them up
or
> whatever pleases you. 5 or 6 of these stacked single pass on 1/2"
> coax will give you more than adequate common mode choking capacity.
>
> 73 - Doug - WB6ROH

430. Re: SPLIT CORE TOROIDS

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-23 03:36:45 UTC
From: wb6roh
Topic: 388 Message: 430

Howdy,

I don't know why the numbers are different. Our crew used an approximate 4" length of RG-58 with the shield and center tied together and the split was tie rapped. I doubt if that should make a big difference. I suspect that all of the cores were made by Fair Ite or however their name is spelled. The difference may be variations between analyzers or more likely variations in core materials. The All Electronics cores MAY be seconds. Given that most us will use 5 or 6 in line, the 500 or 600 ohm impedance should give us the desired results. I would defer to Barry, W4WB, for a potentially better technical assessment on this. I know he also bought a bunch of All Electronics cores. If he has an analyzer, perhaps he can run a similar test. Let me know if you learn anything more about these jewels.

73 - Doug

--- In hex-beam@y..., "k0trl" <bsumner@s...> wrote:
> Hi Doug
>
> I got my split beads from All Electronics and put together a test
> setup as you described in a previous e-mail. I compared the
> results to a split bead from Palomar that I had received in their
> RFI kit. My result proved your point that the beads are
substantially
> the same and cost significantly less, however I got some different
> reactance readings. Mine are:
>
>
> Mhz Yours AllElectronics Palomar
> 7 78 79 60
> 14 115 101 99
> 25 173 111 134
> 100 144 143 139
>
> The big difference in my readings seems to be at 25 Mhz. Also
> interesting is your 25 Mhz reading of 173 which is quite a bump in
the
> curve. I used about 8 inches of #22 stranded and insulated wire
> through the bead held together with plastic tape between the meter
> ground and the banana plug in the center of the coax connector.
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> I don't know that it matters much but maybe you or someone can
suggest
> why the difference.

>
>
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>
>
>
> --- In hex-beam@y..., "wb6roh" <wb6roh@a...> wrote:
> > Anyone needing split toroids for 1/2" coax (RG-8, RG-213 etc.)
> should
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> > A friend picked us up some this week. We ran impedance tests with
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> >
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> >
> > I do not know if they have the nylon clip on covers. One easy
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> you
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> > them as is with a tie-wrap above and below the stack, tape them
up
> or
> > whatever pleases you. 5 or 6 of these stacked single pass on 1/2"
> > coax will give you more than adequate common mode choking
capacity.
> >
> > 73 - Doug - WB6ROH

431. Re: SPLIT CORE TOROIDS

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-24 05:33:39 UTC
From: w4wb
Topic: 388 Message: 431

I ordered 100 of them to share with friends. Should be here next week. Will test them out the following week. Too much work to play with them presently. I expect that All Electronics got them from a company that went under or surplused them. Also, Amidon was likely the manufacturer. Super price in 100 lot!
73 de Barry - W4WB

--- In hex-beam@y..., "wb6roh" <wb6roh@a...> wrote:
> Howdy,
>
> I don't know why the numbers are different. Our crew used an
> approximate 4" length of RG-58 with the shield and center tied
> together and the split was tie rapped. I doubt if that should make
a
> big difference. I suspect that all of the cores were made by Fair
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> or however their name is spelled. The difference may be variations
> between analyzers or more likely variations in core materials. The
> All Electronics cores MAY be seconds. Given that most us will use 5
> or 6 in line, the 500 or 600 ohm impedance should give us the
desired
> results. I would defer to Barry, W4WB, for a potentially better
> technical assessment on this. I know he also bought a bunch of All
> Electronics cores. If he has an analyzer, perhaps he can run a
> similar test. Let me know if you learn anything more about these
> jewels.
>
> 73 - Doug

432. Re: Hex Problem - oh yeah?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-24 05:37:27 UTC
From: w4wb
Topic: 424 Message: 432

Hi David,
Tonight was the first time I have heard a strong sig from TI9M. They were 10/9 on 17 m SSB. One call was all it took. Message from them stated that they finally have all of the antennas up and working. Maybe they will turn the vertical your way soon. ;-)
73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Barry,
>
> I suppose your correct, any mode is better than none, but would like to get them on CW.
>
> Not sure what is happening but Central America is usually a pretty good path from here but there signals are terrible, I can hear them on 15/12/10M at the moment but no better than about S2. Oh well still a while to go so may get them again before they head off.
>
> Regards
>
> David, VK2DPD

433. Re: [hex-beam] Re: Hex Problem - oh yeah?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-24 11:51:45 UTC
From: David Douglass
Topic: 424 Message: 433

Thanks for the info Barry!

Still not hearing him well here, so maybe just have to settle for that SSB contact.

Regards

David
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Sunday, February 24, 2002 5:37 AM
Subject: [hex-beam] Re: Hex Problem - oh yeah?

Hi David,
Tonight was the first time I have heard a strong sig from TI9M. They
were 10/9 on 17 m SSB. One call was all it took. Message from them
stated that they finally have all of the antennas up and working.
Maybe they will turn the vertical your way soon. ;-)
73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Barry,
>
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like to get them on CW.
>
> Not sure what is happening but Central America is usually a pretty
good path from here but there signals are terrible, I can hear them
on 15/12/10M at the moment but no better than about S2. Oh well still
a while to go so may get them again before they head off.
>
> Regards
>
> David, VK2DPD

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434. HX-5B - two years later....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-24 20:09:12 UTC
From: Floyd Sense
Topic: 434 Message: 434

Finally got up the tower today to check out my Hexbeam installation, about 2 years after installation. Everything associated with the beam itself looks just great and my flat black paint job (Krylon), which I applied very lightly, still looks fresh. However, a couple of other items mentioned on the group occasionally warrants comment:

1. I installed a new Channel Master 9515 rotor when I put the hexbeam up. Today I found that the long threaded studs used to secure the rotor to the mast were badly rusted in places, including a couple of the nuts and washers. A couple of the studs and associated hardware looked like new. Rather spotty quality on the plating I guess. Anyway, if you go the route of using a TV type rotor like this, it's probably a good idea to coat the hardware with something, or just bite the bullet and replace the hardware with stainless or good quality plated stuff before putting it up. The bolts and brackets that came with the rotor that secure the beam mast to the rotor look like new.

2. The split ferrite cores: I used several of the cores that are about 1 inch long, and secured with a plastic housing that clamps the cores around the cable. These cores were bought from All Electronics. The housings have a couple of small projections at each end, and these bear against the cable (RG-213 size) to keep the cores from sliding around. I was surprised to find that these tiny projections, over time, had made very deep indentations in the cable jacket and on close inspection, I found that a couple of them had actually penetrated the outer cable jacket. Not good! I use rather high quality cable and was not happy. If you use such cores on your feedline, I'd advise filing or cutting away those projections before installing the cores. I have another set of similar split cores and their housings do not have the projections. Certainly worth your checking this out before ruining a feedline.

The only problem I've had with the hexbeam installation in two years is that the spider-web construction is very good at catching small branches that blow off of a very large nearby sycamore tree. For those not familiar with the sycamore, in the winter time it sheds small branches like other trees shed leaves. At one point the hexbeam had caught several of them as they blew by. Another good reason to put the beam up above the trees!

K8AC
Floyd Sense - Angier, NC

435. HB Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-25 03:33:40 UTC
From: Meiselman
Topic: 435 Message: 435

Hello to all:

Sorry some of you could not make it on Saturday for the exciting HB Net and Fashion Show! I was there for about 10-12 minutes but had to leave due to "honey dos".

The ferrite bead story is becoming very interesting and I look forward to hearing more. As I recall, the plastic "cages" for the split ferrite beads from Palomar were of two types: 1) two were received last year as part of their RFI kit of rings and beads...these two are are on the coax right next to the amp and do not appear to be cutting into the coax; 2) five beads plus five "cages" I got about 2-3 weeks ago...these are just below the base of the antenna and so will require me to get on the roof to see if they are starting to dig into the coax. Stay tuned for the exciting news of Herb vs. the Roof!

I was fairly lucky this week: ER1QQ, CV1F, H7DX, TI9M, 4L1W, YL2GP, 7Z1AC and XW0X. However, the antenna seems to be having some problems...I had to call 3 times on the pileup for 7Z1AC and XW0X, but Barry says 2 is the nominal normal number. What could be wrong? (hi hi)

73s

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

436. Re: HB Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-25 04:03:42 UTC
From: w4wb
Topic: 435 Message: 436

Hi Herb,
Did you remeber to use the rotor? ;-) Good job on the DX!
73 de Barry - W4WB

--- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> Hello to all:
>
> <SNIP>
> I was fairly lucky this week: ER1QQ, CV1F, H7DX, TI9M, 4L1W, YL2GP,
7Z1AC and XW0X. However, the antenna seems to be having some
problems...I had to call 3 times on the pileup for 7Z1AC and XW0X,
but Barry says 2 is the nominal normal number. What could be wrong?
(hi hi)
>
> 73s
>
> Herb K6HJM

437. Re: [hex-beam] Silly idea!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-25 04:44:27 UTC
From: Gordon
Topic: 427 Message: 437

Herb
Any chance of you shipping a set beads (5or6) to Canada? bill the going rate plus a bit for your trouble,S&H etc.
My Hex Beam is still on "the deck" I think I would prefer the Bead Method.
73 de va7xg@...
Gordon

----- Original Message -----
From: Herbert Meiselman
To: hex-beam@yahoogroups.com
Sent: Friday, February 22, 2002 10:06 AM
Subject: [hex-beam] Silly idea!

Belive it or not, I had an idea!

Would there be any value in my stopping by All Electronics, buying a bunch of the cheap ferrite beads, then sending them off to the poor souls who do not live in LA? I'm not sure it would be worth it for foreign HB users (high postage costs), but maybe in the states?

Since the beads are so cheap at All...no charge for this service (maybe I can bill the domestic postage to my university?).

73s,

Herb K6HJM

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438. Re: [hex-beam] Silly idea!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-25 19:25:16 UTC
From: Herbert Meiselman
Topic: 427 Message: 438

Gordon:

I suggest you wait a bit until "Uncle Barry" has studied the bead situation. Apparently there are difference between those sold by Palomar vs. All Electronics. Also, I think "Uncle Barry" has ordered 100 of them, so he would be the more logical contact. In addition, "Uncle Barry" is blessed with $$ so no need to worry about costs.

73s,

Herb

PS: not really sure about the $$, but the rest is true!

At 08:44 PM 2/24/02 -0800, you wrote:
>Herb
>Any chance of you shipping a set beads (5or6) to Canada? bill the going
>rate plus a bit for your trouble,S&H etc.
>My Hex Beam is still on "the deck" I think I would prefer the Bead Method.
>73 de va7xg@...
>Gordon
>
> ----- Original Message -----
> From: Herbert Meiselman
> To: hex-beam@yahoogroups.com
> Sent: Friday, February 22, 2002 10:06 AM
> Subject: [hex-beam] Silly idea!
>
>
> Belive it or not, I had an idea!
>
> Would there be any value in my stopping by All Electronics, buying a bunch
> of the cheap ferrite beads, then sending them off to the poor souls who do
> not live in LA? I'm not sure it would be worth it for foreign HB users
> (high postage costs), but maybe in the states?
>
> Since the beads are so cheap at All...no charge for this service (maybe I
> can bill the domestic postage to my university?).
>
> 73s,
>
> Herb K6HJM
>
>
>
>

>
>
>
> Herbert J. Meiselman, ScD
> Professor and Vice-Chair
> Dept. Physiology and Biophysics
> University of Southern California
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> Los Angeles, CA 90033
> (323) 442-1268
> (323) 442-2283 [FAX]
> meiselma@...
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meiselma@...

[Non-text portions of this message have been removed]

439. Re: Ferrite Beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-26 00:25:16 UTC
From: w4wb
Topic: 427 Message: 439

Hi Herb,
I haven't even received the package from All Electronics and the entire lot is spoken for already! After I receive them, I will try to find time next week to test them.
73 de Barry - W4WB

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> Gordon:
>
> I suggest you wait a bit until "Uncle Barry" has studied the bead
> situation. Apparently there are difference between those sold by
Palomar vs. All Electronics. Also, I think "Uncle Barry" has ordered
100 of them, so he would be the more logical contact. In
addition, "Uncle Barry" is blessed with $$ so no need to worry about
costs.
>
> 73s,
>
> Herb
>
> PS: not really sure about the $$, but the rest is true!
>

440. Testing beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-26 01:03:47 UTC
From: Herbert Meiselman
Topic: 440 Message: 440

Hi Barry:

Thanks for the reply! Glad you are going to be the Ferrite King...I am not senior enough for that honor.

By the way, All Electronics is just down the road (sort of) so I could stop in and ask for the really good beads...even hand-sorted for purity, body and flavor.

73,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
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meiselma@...

441. Re: [hex-beam] Re: Ferrite Beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-26 05:30:20 UTC
From: Gordon
Topic: 427 Message: 441

OK Herb
I am in touch with "Uncle Barry"
Looks like I might get the Last Batch!
Thanks a Million for response
73 de Gordon VA7XG/VE7SGS

----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Monday, February 25, 2002 4:25 PM
Subject: [hex-beam] Re: Ferrite Beads

Hi Herb,
I haven't even received the package from All Electronics and the entire lot is spoken for already! After I receive them, I will try to find time next week to test them.
73 de Barry - W4WB

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> Gordon:
>
> I suggest you wait a bit until "Uncle Barry" has studied the bead
> situation. Apparently there are difference between those sold by
Palomar vs. All Electronics. Also, I think "Uncle Barry" has ordered
100 of them, so he would be the more logical contact. In
addition, "Uncle Barry" is blessed with $$ so no need to worry about
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>
> 73s,
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> Herb
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> PS: not really sure about the $$, but the rest is true!
>

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[Non-text portions of this message have been removed]

442. New to group - help mounting suggestions

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-27 07:41:53 UTC
From: ve7ckz
Topic: 442 Message: 442

Hi,

I am new to this group. I just ordered a 5 band hex-beam a couple of weeks
ago, and can't wait to get it. I will be using a Yaesu light duty rotator
and a fibreglass mast. Does anyone have any suggestions on the following:

1. Guying the 30 foot mast. Guy rope material? Anchoring the guys?
2. Mounting the rotator/base of the mast?
3. Lightning protection?

Any help would be appreciated.

73
Todd
VE7CKZ

443. Re: New to group - help mounting suggestions

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-27 14:15:56 UTC
From: w4wb
Topic: 442 Message: 443

Hi Todd,

Look at message 342 for info regarding guying. An easy guy anchor is to use those screw-in anchors typically used to hold mobile homes in place (and the really big ones are used for power pole anchors). Here, you can find them at ACE Hardware. They come in different sizes.

You might want to get the antenna higher than 30' if possible. Perhaps 38-40'.

I use about a 2-1/2' pipe between the rotor and base of the Hex-Beam. Be sure to drill a hole in the pipe to bolt the HB base to the pipe.

You might want to read the archive regarding RF chokes (baluns) for the HB.

73 de Barry - W4WB

--- In hex-beam@y..., "ve7ckz" <teej29@h...> wrote:
> Hi,
>
> I am new to this group. I just ordered a 5 band hex-beam a couple
of
> weeks
> ago, and can't wait to get it. I will be using a Yaesu light duty
> rotator
> and a fibreglass mast. Does anyone have any suggestions on the
> following:
>
> 1. Guying the 30 foot mast. Guy rope material? Anchoring the
guys?
> 2. Mounting the rotator/base of the mast?
> 3. Lightning protection?
>
> Any help would be appreciated.
>
> 73
> Todd
> VE7CKZ

445. Hex-Beam Works Best Aimed at the DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-02-28 13:22:34 UTC
From: w4wb
Topic: 445 Message: 445

Recently, I noticed that I was NOT getting those typical "big signal" reports from DX stations. I was even having trouble busting pile ups. When I heard H7DX on and had the beam towards Africa, I figured I would head the beam south to work the H7 prefix. His signal dropped from about S-8 to about S-4/5. Huh? So I headed the beam north and went outside to check the heading. It had shifted to east! Best we can figure is that the short mast from the Hex-Beam base to the Channel Master rotor slipped. The mast is bolted to the HB base, but is just clamped in the clam shell of the rotor. That will be pinned as soon as the weather warms a bit (in the teens now).

Now that I know which way the HB is actually pointing, my "big signal" reports have returned, pile up busting is back to normal (CE0Y, A7, etc. on single call), etc. Whew!

Message is to not trust this rotor to hold the mast in its mount.

73 de Barry - W4WB

446. No Respect!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-01 17:55:19 UTC
From: Herbert Meiselman
Topic: 446 Message: 446

Dear fellow HB owners:

I wish to report a serious infringement of the HB Owner's Code of Behavior. This sad event occurred yesterday, but I was too upset to report it until today.

In brief, one of us (VE1OZ) was enjoying DX contacts with Europe and bragging about his antenna (i.e., a Hex Beam). He was so involved in this process that he repeatedly refused to respond to a call from me! My HB was pointed in his direction, the amp was on, and I was using my new Heil HMM mike. Nevertheless...VE1OX demonstrated a complete failure to acknowledge calls from another HB owner.

I trust that Commander Barry will immediately bring this matter before the HB Board of Justice.

With best wishes for a successful conclusion to this problem.

73s,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

447. Help Needed

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-02 17:13:36 UTC
From: Joe Caluda
Topic: 447 Message: 447

Hello,
I am trying to homebrew a Hex Beam for my attic.
I am looking for exact measurements an an owners manual for a commercial one if possible.
Does anyone know of any hams that are using them in attics?
I would like to find out how successful these antennas are at relatively low heights and in the attic.
Any help is greatly appreciated.
Thanks
Joe AA5HP

448. Re: Help Needed

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-02 18:32:38 UTC
From: wb6roh
Topic: 447 Message: 448

Joe,

My HX-5Bi is at 30' on a small tower. K6HJM has his Hex a little lower and near his roof. Given this, I would say that the Hex advantage at heights lower than conventional Yagis is recognized.

The basic formulas for the Hex can be found in Mike Traffie's original article published in Communications Quarterly. W4WB has scanned in a copy on this site. Go to FILES, PUBLICATIONS and then open the top item.

A number of hams posting on this site have homebrewed Hexs for various bands. I suspect that David, VK2DPD, has the most info on the 5-band versions. You might drop him an E-mail.

73 - Doug - WB6ROH

--- In hex-beam@y..., Joe Caluda <jkcal@p...> wrote:
> Hello,
> I am trying to homebrew a Hex Beam for my attic.
> I am looking for exact measurements an an owners manual for a commercial
> one if possible.
> Does anyone know of any hams that are using them in attics?
> I would like to find out how successful these antennas are at relatively
> low heights and in the attic.
> Any help is greatly appreciated.
> Thanks
> Joe AA5HP

449. QST - HEXBUS Net - 03/02/02

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-02 18:38:30 UTC
From: wb6roh
Topic: 449 Message: 449

In light of this weekend's DX contest, I suggest that today's net be convened on 24956 at the usual 2230 CUT time to minimize QRM for all concerned. If no one shows up or is heard there, QSY to 18156 at 2245 CUT.

73 - Doug - WB6ROH

450. Tip Spacing Confusion

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-03 05:19:35 UTC
From: Joe Caluda
Topic: 450 Message: 450

I am trying to understand the tip spacing as shown in the article by Traffie.
What do the two different tip-spacing measurements on the right side mean? What is the dot between(not connected to any end of a wire) the ends of the driven element and the reflector mean?
If this is a ridiculous question I apologize but none the less I need clarification.
Thanks to anyone who can help.
Thanks
Joe AA5HP

451. Re: [hex-beam] Tip Spacing Confusion

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-03 05:40:55 UTC
From: David Douglass
Topic: 450 Message: 451

Joe,

Don't worry about the overall tip spacing, the other is simply the length of string you will need to connect the end of the element to centre supporting arm.

Good luck and you must of posted this mail at the same time I send my last e-mail to you.

David, VK2DPD
----- Original Message -----
From: Joe Caluda
To: hex-beam@yahoogroups.com
Sent: Sunday, March 03, 2002 5:19 AM
Subject: [hex-beam] Tip Spacing Confusion

I am trying to understand the tip spacing as shown in the article by Traffie.
What do the two different tip-spacing measurements on the right side mean? What is the dot between(not connected to any end of a wire) the ends of the driven element and the reflector mean?
If this is a ridiculous question I apologize but none the less I need clarification.
Thanks to anyone who can help.
Thanks
Joe AA5HP

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452. 40M performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-03 11:17:35 UTC
From: David Douglass
Topic: 452 Message: 452

Hi All,

I've just put up a 40M vertical (Homebrew of course), and have compared performance with the Hex-Beam!! As would be expected the vertical pretty much wipes the floor with the Hex, therefore putting a damper on my previous comments on out of band performance.

On a more positive note, the Hex is still performing very well on 30M and the in band performance is still well above expectation with yet another new country worked this week (9 so far in 2002).

had a listen out on12M for the net this morning but no propagation into sunny Sydney

Regards all,

VK2DPD, David
vk2dpd@...
vk2dpd@...

453. Re: 40M performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-03 16:01:38 UTC
From: w4wb
Topic: 452 Message: 453

Hi David,

Interesting data point. Nevertheless, your earlier observations on out-of-band operation of the HB (using it on 40 and 30 m) did prompt several of us to give it a go as well. I am certain that the performance on 40 m is poorer than a good dipole at proper height or a vertical; however, I have worked a number of stations in Europe with it (100 W CW, 40 m) and Shin told me that he has worked a number in the US (but not the East Coast). Best thing it has going is having some F/B and F/S to reduce the heavy local (US) QRM. Having nothing else for 40 m at the office QTH means that the HB-5B on 30 and 40 m is better than nothing. Still dreaming of a 40 m Hex at my QTH! :-)

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi All,
>
> I've just put up a 40M vertical (Homebrew of course), and have compared performance with the Hex-Beam!! As would be expected the vertical pretty much wipes the floor with the Hex, therefore putting a damper on my previous comments on out of band performance.
>
> On a more positive note, the Hex is still performing very well on 30M and the in band performance is still well above expectation with yet another new country worked this week (9 so far in 2002).
>
> had a listen out on12M for the net this morning but no propagation into sunny Sydney
>
> Regards all,
>
> VK2DPD, David

454. Driven/Director combo?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-03 16:46:17 UTC
From: Joe Caluda
Topic: 454 Message: 454

All of the literature that I have read says that in a 2 elements yagi beam installation, the director gives better forward gain over a reflector.
Has anyone tried the driven/director combo versus the driven/reflector combo?
Does the hex beam not follow this rule for the 2-element yagi?
Look forward to the replies.
Joe AA5HP

455. Re: Driven/Director combo?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-03 18:30:11 UTC
From: w4wb
Topic: 454 Message: 455

Hi Joe,

Well, that is what some folks think. The answer depends upon what your design requirements are to a large degree. Forward gain is only one parameter in the overall optimization of an antenna. Bandwidth, F/B, etc. are also important to most hams. I know one fellow that believes F/B is most important for his QTH while another wants only gain (F/B is of no importance to him). When you balance out all the factors, it seems most 2-element designs use the driven element and reflector ocnfiguration. See the designs in the ARRL Antenna Book (30 & 40 m Yagis and quad). Traffie, I understand, experiemented with both configurations and found the drive-reflector combination to be the best as well.

73 de Barry - W4WB

--- In hex-beam@y..., Joe Caluda <jkcal@p...> wrote:
> All of the literature that I have read says that in a 2 elements yagi beam installation, the director gives better forward gain over a
> reflector.
> Has anyone tried the driven/director combo versus the driven/reflector combo?
> Does the hex beam not follow this rule for the 2-element yagi?
> Look forward to the replies.
> Joe AA5HP

456. Re: Driven/Director combo?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-03 19:26:14 UTC
From: w4wb
Topic: 454 Message: 456

Hi Joe,
You might enjoy reading LB Cebik's analysis of 2-element Yagis at http://www.cebik.com/beam.html. He ignoes the driven - director combination and looks only at the driven - reflector combination.

73 de Barry - W4WB

457. Re: [hex-beam] Re: 40M performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-03 20:02:42 UTC
From: David Douglass
Topic: 452 Message: 457

Hi Barry,

Yep, would agree, anything is better than nothing. I suppose one of the reasons I didn't work so much DX on 40 was that there are probably a lot less stations within a 5000Km, or so, radius from here than you guys. I was listening to the ARRL test last night on 40, and there were some stations that were s9 on the vertical, that were unreadable on the Hex.

Anyway, just to get something for 80 now.

David, VK2DPD
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Sunday, March 03, 2002 4:01 PM
Subject: [hex-beam] Re: 40M performance

Hi David,

Interesting data point. Nevertheless, your earlier observations on out-of-band operation of the HB (using it on 40 and 30 m) did prompt several of us to give it a go as well. I am certain that the performance on 40 m is poorer than a good dipole at proper height or a vertical; however, I have worked a number of stations in Europe with it (100 W CW, 40 m) and Shin told me that he has worked a number in the US (but not the East Coast). Best thing it has going is having some F/B and F/S to reduce the heavy local (US) QRM. Having nothing else for 40 m at the office QTH means that the HB-5B on 30 and 40 m is better than nothing. Still dreaming of a 40 m Hex at my QTH! :-)

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi All,
>
> I've just put up a 40M vertical (Homebrew of course), and have compared performance with the Hex-Beam!! As would be expected the vertical pretty much wipes the floor with the Hex, therefore putting a damper on my previous comments on out of band performance.
>
> On a more positive note, the Hex is still performing very well on 30M and the in band performance is still well above expectation with yet another new country worked this week (9 so far in 2002).
>
> had a listen out on12M for the net this morning but no propagation into sunny Sydney
>

> Regards all,
>
> VK2DPD, David

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458. Tip Spacing Question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-04 00:54:27 UTC
From: Joe Caluda
Topic: 458 Message: 458

I need some clarification about the drawing in Traffie's article.
The tip spacing is confusing to me. First of all, in actual
construction, do the tips of the driven and reflector hit the spreader
at the same point or is the reflector end further out down the spreader.

Secondly if the tips although not connected meet at the same point of
the spreader, then the reflector would have to have longer legs than the
9'3" taht the drawing shows.
The drawing says "All Sides 9'3", but if you make the reflector 4%
longer, than the legs would be longer than the driven legs which are
9'3".
I appreciate any and all help with my confusion as possible.
I guess not having the ability to see one in person assembled is
clouding my understanding of the drawing.
Thanks in advance.
Joe AA5HP

459. Re: [hex-beam] Tip Spacing Question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-04 01:47:31 UTC
From: Brad Sumner
Topic: 458 Message: 459

Joe---let me take a try at your question. If you think about the angle of the wires (or in some cases insulating line) as they leave the spreaders you'll see that they form a sixty degree angle. Two opposite spreaders terminate the ends of the driven and reflector elements. Since the reflector is longer it ends up a bit closer to the spreader than the driven element and therefore has a bit shorter piece of insulating line from the end of the wire to the spreader. All 8 wire sides are 9' 3" but four of them include a piece of insulator. Hence the two formulae to calculate the length of these short insulating pieces. The third formula, if I remember from noodling with the math when I was working on my 6 meter antenna becomes the actual distance directly between the ends of the wires. I worked throught the geometry and found the formulae to work out pretty close but resorted to the trim and check method when actually tuning the antenna.

Hope that helps and even more hope that it is correct.

Good Luck Brad K0TRL

460. DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-05 12:19:00 UTC
From: David Douglass
Topic: 460 Message: 460

OK I didn't work him on the Hex, but just got P5/YT1AD on 40CW (50Watts). I think this will be a good one to test the Hex's performance against, thankfully P5 is a good path from VK, so hoping to get him on a few more.

Good luck - "I wonder how many people have 2 separate P5 stations in the log""??

David, VK2DPD

vk2dpd@...
vk2dpd@...

461. Spreader Materials?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-05 00:51:09 UTC
From: Joe Caluda
Topic: 461 Message: 461

Has anyone used PVC for their spreaders on the homebrewed Hex beams?
I see that fiberglass is probably the material of choice but curious if
PVC will work okay on the 20 meter model? Also, is it the actual wire
elements that give the spreaders the bow or is it the nylon lines?
Thanks
Joe AA5HP

463. Re: DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-06 02:59:21 UTC
From: w4wb
Topic: 460 Message: 463

Congratulations David. I also worked the same P5 on 20 m CW about 2252Z. Seems that most folks believe he is a pirate. Many of us noted that his heading was wrong and no polar flutter. Bummer. :-(Still holding data in the log just in case.

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> OK I didn't work him on the Hex, but just got P5/YT1AD on 40CW (50Watts). I
> think this will be a good one to test the Hex's performance against,
> thankfully P5 is a good path from VK, so hoping to get him on a few more.
>
> Good luck - "I wonder how many people have 2 separate P5 stations in the
> log""??
>
> David, VK2DPD
>
> vk2dpd@q...
> vk2dpd@b...

464. Re: [hex-beam] Re: DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-06 05:24:31 UTC
From: David Douglass
Topic: 460 Message: 464

Hi Barry,

Well also worked him on 20M at 19.09UTC this morning on CW. Not sure if he was a pirate either but I was beaming North which is pretty OK for that part of World. Strange thing is he seemed to be slightly out of band both on 20 and 40.

Anyway, hope your QSO was OK and best wishes

David
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Wednesday, March 06, 2002 12:03 AM
Subject: [hex-beam] Re: DX

Congratulations David, but I worked him too on 20 m CW at 2252Z; however, it is believed that he is a pirate. Wrong headings from many US stations and the lack of polar flutter makes it unlikely he was for real. I'm keeping the data in the log for now, just in case. :-)

Oh yes, I used the Hex-Beam and his heading was way off.

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> OK I didn't work him on the Hex, but just got P5/YT1AD on 40CW (50Watts). I
> think this will be a good one to test the Hex's performance against,
> thankfully P5 is a good path from VK, so hoping to get him on a few more.
>
> Good luck - "I wonder how many people have 2 separate P5 stations in the
> log""??
>
> David, VK2DPD
>
> vk2dpd@q...
> vk2dpd@b...

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465. Re: DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-06 05:35:11 UTC
From: w4wb
Topic: 460 Message: 465

Hi David,

Just received an update from Daily DX by W3UR. It goes into some detail that this guy is a pirate. My beam heading was indicating Europe was the location. Apparently, others on the East coast here found the same thing. The slight out-of-band operation was noted as another clue. Also, his signal was a solid 589 to 599 while I heard no other activity from HL or JA or ... When I have heard the "real" P5 on 10 or 15 m SSB, he is very weak.

Guess we have to keep trying, but that's the fun of it.

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi Barry,
>
> Well also worked him on 20M at 19.09UTC this morning on CW. Not sure if he was a pirate either but I was beaming North which is pretty OK for that part of World. Strange thing is he seemed to be slightly out of band both on 20 and 40.
>
> Anyway, hope your QSO was OK and best wishes
>
> David

467. Re: 40M performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-05 17:02:33 UTC
From: bbadger
Topic: 452 Message: 467

A 40m vertical will have low angle radiation, whereas a horizontal dipole for 40 at 1/4 wave height will have only high angle radiation.

Since 40m can have both NVIS and DX propagation, both types of antennas are needed. Your vertical worked well for long haul DX, but it probably would lose to the Hexbeam on short hop.

--
Brian N0KZ

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> I was listening to the ARRL test last night on 40, and there were some stations that were s9 on the vertical, that were unreadable on the Hex.

468. Spreader Material?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-05 17:45:05 UTC
From: genesisjoe2001
Topic: 468 Message: 468

I know that fiberglass is probably the most popular material for the spreaders. Has anyone had success using PVC?
Also, how easy would it be to add the 4 other bands to the 20 meter monobander from Traffie?

Thanks for the replies.
Joe AA5HP

469. Re: [hex-beam] Spreader Materials?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-05 19:00:47 UTC
From: David Douglass
Topic: 461 Message: 469

Joe,

You need lengths round about the 11foot mark, so reason PVC wouldn't work. However, it was has to be a reasonably large diameter tube to stop it flopping around. That was the first mistake I made with my wood version.

And, yes the wires hold the whole shape together, do you will need reasonably strong wire also.

GL

David, VK2DPD
----- Original Message -----
From: Joe Caluda
To: hex-beam@yahoogroups.com
Sent: Tuesday, March 05, 2002 12:51 AM
Subject: [hex-beam] Spreader Materials?

Has anyone used PVC for their spreaders on the homebrewed Hex beams?
I see that fiberglass is probably the material of choice but curious if
PVC will work okay on the 20 meter model? Also, is it the actual wire
elements that give the spreaders the bow or is it the nylon lines?
Thanks
Joe AA5HP

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470. New to the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-06 22:29:19 UTC
From: George Shaw
Topic: 460 Message: 470

Folks

I have read the articles, the Web site and all you comments in this group. Let me introduce my self and my position.

I have just about to get my licence after being SWL for 20 years. I am interested in HF, Data and VHF/UHF working. The problem (or challenge) is that of my location. I live on the 12th floor of a 14-floor block of flats. There is no balcony at all. I have obtained outline permission from the landlords to allow the placement of an antenna on the roof of the block (height from ground approximately 168ft). The roof is flat and covered in a rubber membrane over reinforced concrete. The area is subject to high winds and strong gusts are common. (It is Ireland after all :)

Now I have been looking for a small antenna that covers as many bands with good bandwidth as possible and | hope I have found it.

Question: How high should I place the Hex above the roof level? Will it withstand the weather conditions? What bands will it REALLY work on (multi beam)? Any users in UK? Can I mount a 6m/2m/70cm vertical above the Hex multi beam?

What is the real opinion on the Hex, without any sales talk? Is it snake oil? (I don't think so my self after reading all the reports).

I hope to purchase in a few weeks.

--
George Shaw

eMail: george.shaw@...
eMail: george.shaw@...
Home: +44 (0) 28 9062 8924
Mobile: +44 (0) 77 4036 1163
ICQ#: 1741675

471. Re: New to the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-07 00:26:10 UTC
From: bbadger
Topic: 460 Message: 471

--- In hex-beam@y..., "George Shaw" <george.shaw@u...> wrote:

> Question: How high should I place the Hex above the roof level?

Depends on how big the roof is. If the roof is small compared to the wavelength, any height will be fine. If the roof is very large, then you need to get it up at least 30 feet. If the roof is somewhere in between, then you can put it up at some height in between. I recommend putting it at the height that is most feasible given your available mounting options -- survivability is more important than gain.

> Will it withstand the weather conditions?

The beam will. Focus on the mounting.

> What bands will it REALLY work on (multi beam)?

Great performance on 10 through 20. 6 and 30 may be bonuses (works on mine).

> Can I mount a 6m/2m/70cm vertical above the Hex multi beam?

Not likely. The center post is not a mast. Just mount the vertical on the roof. At 168 feet up, you don't need a tower for a VHF vertical -- you don't even need gain.

> What is the real opinion on the Hex, without any sales talk? Is it snake oil?

It's a very nice 5 band 2 element beam. It will be a few db down from 3 element monoband yagis and 2 element quads. It will be very close in performance to "trapped" multiband 3 element yagi, as the loss in the traps approximately cancels out the gain of the extra element.

Compared to other 5 band beams, it's the clear winner.
--
Brian N0KZ

472. Re: [hex-beam] Re: DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-06 06:13:21 UTC
From: David Douglass
Topic: 460 Message: 472

Cheers Barry,

I suppose I should check whether my 40M QSO is Fair Dinkum, I was maybe a bit premature in my original boast.

Regards

David
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Wednesday, March 06, 2002 5:35 AM
Subject: [hex-beam] Re: DX

Hi David,

Just received an update from Daily DX by W3UR. It goes into some detail that this guy is a pirate. My beam heading was indicating Europe was the location. Apparently, others on the East coast here found the same thing. The slight out-of-band operation was noted as another clue. Also, his signal was a solid 589 to 599 while I heard no other activity from HL or JA or ... When I have heard the "real" P5 on 10 or 15 m SSB, he is very weak.

Guess we have to keep trying, but that's the fun of it.

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi Barry,
>
> Well also worked him on 20M at 19.09UTC this morning on CW. Not sure if he was a pirate either but I was beaming North which is pretty OK for that part of World. Strange thing is he seemed to be slightly out of band both on 20 and 40.
>
> Anyway, hope your QSO was OK and best wishes
>
> David

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[Non-text portions of this message have been removed]

473. Re: New to the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-07 14:01:11 UTC
From: w4wb
Topic: 460 Message: 473

Hi George,

Let me first answer that this is an independent Hex-Beam user group that has no connection with Traffie Technology. In fact, Traffie doesn't use email and makes no posts on this site. What you read here is likely just what folks think about the antenna.

GL on getting your ham license. I'm sure you will have even more fun.

You really need to take the apartment landlords out for a pint or two! Having the antenna at such a height can be problematic (low TOA). Primary issue is what is in the roof and its relative RF size. Will it serve as a ground plane or not? At 168' about ground, the Hex-Beam would show 5 well-defined lobes with the main lobe being at 6 degs (deep nulls in between lobes). See my earlier posts about TOAs and height of the HB. The question is what is your effective height? Performance will be in between the extremes I would think. In any case, it will serve you well.

Look at the JR1NHD installation on the home page. I think that is on top of a 6 story building. Try to get your HB up 20-25 feet above the roof if possible. A good trick is to use a 36-40' telescoping mast and set the sections to overlap. Drill and bolt them in place. I would use three guys (one just below the rotor). Use a proper guy material. I have no idea what is available there, but you don't want to do it twice now do you? I would stay away from metal guys unless you understand how to mechanically and electrically use them correctly.

Good luck. Hope to work you soon!

73 de Barry - W4WB

--- In hex-beam@y..., "George Shaw" <george.shaw@u...> wrote:
> Folks
>
> I have read the articles, the Web site and all you comments in this group.
> Let me introduce my self and my position.
>
> I have just about to get my licence after being SWL for 20 years. I am
> interested in HF, Data and VHF/UHF working. The problem (or challenge) is
> that of my location. I live on the 12th floor of a 14-floor block of flats.
> There is no balcony at all. I have obtained outline permission from

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> landlords to allow the placement of an antenna on the roof of the
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> (height from ground approximately 168ft). The roof is flat and
covered in a
> rubber membrane over reinforced concrete. The area is subject to
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> and strong gusts are common. (It is Ireland after all :)
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> Now I have been looking for a small antenna that covers as many
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> good bandwidth as possible and | hope I have found it.
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> Question: How high should I place the Hex above the roof level?
Will it
> withstand the weather conditions? What bands will it REALLY work on
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> beam)? Any users in UK? Can I mount a 6m/2m/70cm vertical above the
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> What is the real opinion on the Hex, without any sales talk? Is it
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>
> I hope to purchase in a few weeks.
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> --
> George Shaw
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> eMail: george.shaw@b...
> eMail: george.shaw@u...
> Home: +44 (0) 28 9062 8924
> Mobile: +44 (0) 77 4036 1163
> ICQ#: 1741675

474. RE: [hex-beam] New to the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-07 21:33:09 UTC
From: Charles Penry
Topic: 460 Message: 474

George,
Welcome to Amateur Radio!

First off, I do not own a Hex Beam yet, but I am strongly considering one.

I want to mention something about the 6m/2m/70cm antenna or antennas you are considering using. The experience in our part of the world is that at a typical Ham's house a multi-band Comet, Diamond or the like works fine roof mounted up 10 meters or so. When these types of antennas are mounted higher where they catch more wind, they don't last long. If you can put up commercial two-way types of antennas you will be better off. An alternative is simple single dipoles or small ground plane antennas for each band. Something small that can withstand the wind better. The issue is not so much high winds breaking the antennas, it's the fatigue from constantly swaying and flexing in the wind.

73,

Charles WA5VHU

-----Original Message-----
From: George Shaw [mailto:george.shaw@...]
Sent: Wednesday, March 06, 2002 4:29 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] New to the Hex

Folks

I have read the articles, the Web site and all you comments in this group. Let me introduce my self and my position.

I have just about to get my licence after being SWL for 20 years. I am interested in HF, Data and VHF/UHF working. The problem (or challenge) is that of my location. I live on the 12th floor of a 14-floor block of flats. There is no balcony at all. I have obtained outline permission from the landlords to allow the placement of an antenna on the roof of the block (height from ground approximately 168ft). The roof is flat and covered in a rubber membrane over reinforced concrete. The area is subject to high winds and strong gusts are common. (It is Ireland after all :)

Now I have been looking for a small antenna that covers as many bands with good bandwidth as possible and | hope I have found it.

Question: How high should I place the Hex above the roof level? Will it withstand the weather conditions? What bands will it REALLY work on (multi beam)? Any users in UK? Can I mount a 6m/2m/70cm vertical above the Hex multi beam?

What is the real opinion on the Hex, without any sales talk? Is it snake oil? (I don't think so my self after reading all the reports).

I hope to purchase in a few weeks.

--
George Shaw

eMail: george.shaw@...
eMail: george.shaw@...
Home: +44 (0) 28 9062 8924
Mobile: +44 (0) 77 4036 1163
ICQ#: 1741675

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[Non-text portions of this message have been removed]

475. Re: New to the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-07 21:49:28 UTC
From: n6tz
Topic: 460 Message: 475

When it comes to vhf simple vertical antennas, none beats the
mechanical durability of the copper water pipe J pole. They last and
last and..... I gave up on aluminum vhf some time ago.
Hal, N6TZ

--- In hex-beam@y..., "Charles Penry"<penry@n...> wrote:
> George,
> Welcome to Amateur Radio!
>
> First off, I do not own a Hex Beam yet, but I am strongly
considering one.
>
> I want to mention something about the 6m/2m/70cm antenna or
antennas you are
> considering using. The experience in our part of the world is that
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> typical Ham's house a multi-band Comet, Diamond or the like works
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> mounted up 10 meters or so. When these types of antennas are
mounted higher
> where they catch more wind, they don't last long. If you can put up
> commercial two-way types of antennas you will be better off. An
alternative
> is simple single dipoles or small ground plane antennas for each
band.
> Something small that can withstand the wind better. The issue is
not so
> much high winds breaking the antennas, it's the fatigue from
constantly
> swaying and flexing in the wind.
>
>
> 73,
>
> Charles WA5VHU
>
>
> -----Original Message-----
> From: George Shaw [mailto:george.shaw@u...]
> Sent: Wednesday, March 06, 2002 4:29 PM
> To: hex-beam@y...
> Subject: [hex-beam] New to the Hex
>
> Folks
>

> I have read the articles, the Web site and all you comments in this
group.
> Let me introduce my self and my position.
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> interested in HF, Data and VHF/UHF working. The problem (or
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> What is the real opinion on the Hex, without any sales talk? Is it
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> oil? (I don't think so my self after reading all the reports).
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> George Shaw
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>
> [Non-text portions of this message have been removed]

476. RE: [hex-beam] Re: New to the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-07 19:31:00 UTC
From: George Shaw
Topic: 460 Message: 476

Ok points taken on board. Unfortunately the Landlord is an organisation so it would end up as several nights out on the beer to succeed this way :) but it would be fun trying.

As I wish to minimise the visual impact during daylight hours, would it be possible to arrange a height adjustable tower/mast? I would need to control this from my apartment but it would make an optimum set-up. If not I will have to arrange to fix at a height so that from ground level and viewing angle the antenna is mostly below the building edge, about 10-15ft

--
George Shaw

eMail: george.shaw@...
eMail: george.shaw@...
Home: +44 (0) 28 9062 8924
Mobile: +44 (0) 77 4036 1163
ICQ#: 1741675

-----Original Message-----
From: w4wb [mailto:w4wb@...]
Sent: 07 March 2002 14:01
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: New to the Hex

Hi George,

Let me first answer that this is an independent Hex-Beam user group that has no connection with Traffie Technology. In fact, Traffie doesn't use email and makes no posts on this site. What you read here is likely just what folks think about the antenna.

GL on getting your ham license. I'm sure you will have even more fun.

You really need to take the apartment landlords out for a pint or two! Having the antenna at such a height can be problematic (low TOA). Primary issue is what is in the roof and its relative RF size. Will it serve as a ground plane or not? At 168' about ground, the Hex-Beam would show 5 well-defined lobes with the main lobe being at 6 degs (deep nulls in between lobes). See my earlier posts about TOAs and height of the HB. The question is what is your effective height? Performance will be in between the extremes I would think. In any case, it will serve you well.

Look at the JR1NHD installation on the home page. I think that is on top of a 6 story building. Try to get your HB up 20-25 feet above the roof if possible. A good trick is to use a 36-40' telescoping

mast and set the sections to overlap. Drill and bolt them in place. I would use three guys (one just below the rotor). Use a proper guy material. I have no idea what is available there, but you don't want to do it twice now do you? I would stay away from metal guys unless you understand how to mechanically and electrically use them correctly.

Good luck. Hope to work you soon!

73 de Barry - W4WB

--- In hex-beam@y..., "George Shaw" <george.shaw@u...> wrote:
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477. Re: New to the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-08 01:28:36 UTC
From: w4wb
Topic: 460 Message: 477

FB George. One way to lower the visual impact is to paint the antenna flat black (non-conductive paint) and the mast/tower. Even with a bright sky background, it will be very hard to see, and at that height, even more so. The arms are at most 3/4" diameter. Given that you must stand away from the building a modest amout to see the antenna, say a total viewing distance of about 200', the angular subtense of the arm will be about 0.3 milliradian. This happens to be about the normal visual acuity of the human eye. The reason for flat black rather than a blue or camo or whatever, is simply that they all reflect light. The idea is to not reflect light. After several years, I still have to do a double-take when I check to see if my flat-black Titan antenna is still out in the yard! I note that the eye can detect a black line against a very bright field that subtends just a second of arc IF the observer is not distracted and knows what he is doing (rare). Basically, it will just vanish as far as folks on the ground are concerned I should expect.

73 de Barry - W4WB

--- In hex-beam@y..., "George Shaw" <george.shaw@u...> wrote:
> Ok points taken on board. Unfortunately the Landlord is an organisation so it would end up as several nights out on the beer to succeed this way :) but it would be fun trying.
>
> As I wish to minimise the visual impact during daylight hours, would it be possible to arrange a height adjustable tower/mast? I would need to control this from my apartment but it would make an optimum set-up. If not I will have to arrange to fix at a height so that from ground level and viewing angle the antenna is mostly below the building edge, about 10-15ft
>
> George Shaw
>

478. Re: [hex-beam] Re: New to the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-08 15:44:10 UTC
From: Meiselman
Topic: 460 Message: 478

Hello to All:

As a second (?) choice for color, try grey auto primer. This stuff is very, very flat, comes in a spray can (Rustolem makes one type), and is very forgiving of sloppy spray techniques.

Believe it or not, my wife has told me TWICE that the HB looks "nice" and much, much better than the prior minibeam. By the way, she is not a ham and is very sensitive to the looks of our house and the neighbor's opinions.

73s

Herb K6HJM

At 01:28 AM 3/8/2002 +0000, you wrote:
>FB George. One way to lower the visual impact is to paint the
>antenna flat black (non-conductive paint) and the mast/tower. Even
>with a bright sky background, it will be very hard to see, and at
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>not distracted and knows what he is doing (rare). Basically, it will
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>73 de Barry - W4WB
>
>
>--- In hex-beam@y..., "George Shaw" <george.shaw@u...> wrote:
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

[Non-text portions of this message have been removed]

479. Re: New to the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-08 18:03:11 UTC
From: n6tz
Topic: 460 Message: 479

I vote also for the flat grey color.(Webster dictionary gives you a choice of gray or grey) I have been involved in commercial installations for 35 years, and gray is the most acceptable color. The black casts a hard silhouette against the sky, while the gray tends to blend in easier.

The largest mistake I ever saw was a broadcast antenna painted white; you could see it sticking out like a sore thumb for two miles. The neighbors were up in arms in a matter of hours. We had warned the installer, but were ignored. It ended up with the local councilman and county supervisor making threats, so down it came and it had a new paint job with gray.

My guess is that Traffie has no choice in colors for the spreaders, and they are actually made for other uses, then modified for the Hex. Let's face it, the ham market is not the biggest, so a lot of these companies are at the mercy of the manufacturers, and what is available for other uses.

Hal, N6TZ

--- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> Hello to All:
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> As a second (?) choice for color, try grey auto primer. This stuff
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> >
> >--- In hex-beam@y..., "George Shaw" <george.shaw@u...> wrote:
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>
> Herbert J. Meiselman, ScD

> Professor and Vice-Chair
> Dept. Physiology and Biophysics
> Keck School of Medicine
> 1333 San Pablo Street
> Los Angeles, CA 90033
> 323-442-1268
> 323-442-2283 (FAX)
> meiselma@u...
>
> [Non-text portions of this message have been removed]

480. Re: New to the Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-09 01:16:07 UTC
From: w4wb
Topic: 460 Message: 480

Hi Hal,
I still go with flat black from my experience for his installation, but either will beat the standard white. If you have a high tower, then a gray is preferred because it reflects the sky surrounding and fades better; however, a low tower will be closer to artificial light sources and the reflection from the gray often stands out.

FWIW, the arms are custom made for Traffie.

73 de Barry - W4WB

--- In hex-beam@y..., "n6tz" <halw@s...> wrote:
> I vote also for the flat grey color.(Webster dictionary gives you a
> choice of gray or grey) I have been involved in commercial
> installations for 35 years, and gray is the most acceptable color.
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> you could see it sticking out like a sore thumb for two miles. The
> neighbors were up in arms in a matter of hours. We had warned the
> installer, but were ignored. It ended up with the local councilman
> and county supervisor making threats, so down it came and it had a
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> My guess is that Traffie has no choice in colors for the spreaders,
> and they are actually made for other uses, then modified for the
> Hex. Let's face it, the ham market is not the biggest, so a lot of
> these companies are at the mercy of the manufacturers, and what is
> available for other uses.
>
> Hal, N6TZ
>

481. K6HJM Painting Services

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-09 01:36:15 UTC
From: Herbert Meiselman
Topic: 481 Message: 481

Dear All:

For the right price, the K6HJM Painting Services LLC truck will come to your location and paint your H-B antenna. At present, colors are limited to two: grey or gray.

All work is private, confidential and guaranteed.

73s,

Herb

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

482. painting (Was:: New to the Hex)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-09 07:04:37 UTC
From: George Shaw
Topic: 460 Message: 482

Not wanting to take this to far off topic, the advise given so far on painting the beam is great. Would it not be a better position to adopt the military and nature approach of camouflage say using a mix of grey, light blue all matt finish as that would break the profile to an even greater extent.

I did a small experiment last night. I took 4 10ft long poles around 2" in diameter (PVC water pipe) and painted on matt black, one light blue, one white and one camo (greys light to dark, blues mixed) and placed them on the roof of the building I am hoping to install on. From ground level the white one stood out like a sore thumb. The black one noticeable during afternoon through to early evening. The grey one fairly invisible. The camo one dang near totally invisible. Wx was overcast (it is Ireland after all) sky grey, light rain at times.

--
George Shaw

eMail: george.shaw@...
eMail: george.shaw@...
Home: +44 (0) 28 9062 8924
Mobile: +44 (0) 77 4036 1163
ICQ#: 1741675

-----Original Message-----
From: w4wb [mailto:w4wb@...]
Sent: 09 March 2002 01:16
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: New to the Hex

Hi Hal,
I still go with flat black from my experience for his installation, but either will beat the standard white. If you have a high tower, then a gray is preferred because it reflects the sky surrounding and fades better; however, a low tower will be closer to artificial light sources and the reflection from the gray often stands out.

FWIW, the arms are custom made for Traffie.

73 de Barry - W4WB

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hex-beam-unsubscribe@yahoogroups.com

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483. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-10 05:00:47 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 483

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /Publications/Hex-Beam (59 Mag).pdf
Uploaded by : w4wb <w4wb@...>
Description : "The HEX-BEAM HX-5Bi" by Shin JR1NHD, appearing in the Japanese DX Magazine "Five Nine"

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/Publications/Hex-Beam%20%2859%20Mag%29.pdf

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

w4wb <w4wb@...>

484. "Five Nine" Article by Shin - JR1NHD

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-10 05:33:23 UTC
From: w4wb
Topic: 484 Message: 484

Dear Member,

Please see the Files area to view a copy of the article by Shin - JR1NHD on the HX-5Bi, which appeared in the March 2002 issue of the Japanese DX Magazine "Five Nine." Once you sign onto the hex-beam Group site, go to Files --> Publications --> The HEX-BEAM HX-5Bi.

This was a cover story article. Congratulations to Shin and our thanks to him for providing a translation from the Japanese into English.

His HEX-BEAM is on top of a 6-story building.

73 de Barry - W4WB

485. Shin's article

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-10 12:43:24 UTC
From: buzzmann555
Topic: 485 Message: 485

Just finished reading the article Shin wrote for 59 Magazine. Excellent job! I enjoyed the article and the photos. Another fine bit of advertising for Traffie Technologies. Mike better crank up the production line. Ought to be getting a bunch of sales in Japan due to the article.
73 to all,
Buzz
N5FTR

486. Hexbeam 201 up; results and operating observations

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-10 13:08:52 UTC
From: wo8usa
Topic: 486 Message: 486

This is mainly for people considering a Hexbeam but may be of interest to others too:

Hexbeam #201 went up here in Dayton, Ohio on a cold snowy day, wind chills about 0 degrees with flurries. Although I am not a "contester" I wanted it up in time for the March DX SSB contests. I spent a considerable amount of time researching antennas before deciding pn the HX5Bi.

The service from Traffie and follow-up are excellent. Do not worry if you have a problem, they will take care of it including their gurantee of "if you don't like it return it as it was sent for a refund".

The mount here consists of a Rohn 30' push up mast. I find its quality excellent. Beside the Rohn mast I have a 12', 4x4 wooden pole that provides a lot of support. The mast is secured to the post with heavy duty post clamps from Lowe's. I use non-metallic high stength guy wores from Radio Works to guy it at the higher levels. The post itself provides great support so the antenna could stay up at 10-15 feet without guying for testing. The 4x4 sites in a hole filled with concrete, the mast is mounted using the Rohn mount bolted into the concrete.

I also use a Radio Shack TV rotor. I would have preferred the older Channel Master but did not want the IR remote. I have seen both rotors and they look almost the same.

Construction of the Hexbeam was greatly aided by the excellent documentation by Floyd, W8AC. The biggest improvements to the instruction manual would be just adding Floyd's website to the instructions! With both sources the went togethter quickly and easily. One bad thing, my hexbeam hub assembly was not provided with the proper mounting hub so I had to improvise by drilling by own hub-to-mast bolt locking hole. I am sure I could have called Traffie but I was at a point where I could not stop and had to get done. All the preassembly done in the plant makes the beam much easier to build than any other "less complex" antenna. I cannot imagine putting all the clamps on in the right spot.

Getting the Hexbeam up on the mast could use some suggestions or recommendations. This was the hardest part; due to the symmetry of the antenna there is no real good place to raise first.

I used the Hexbeam in the ARRL DX Contest and plan to do the same in the CQ contest coming up. I made comparisons in signal level (yes, I know S-meters are so inexact but, at the same time with the same

station on the same frequency provide a general scale for comparison).

Operating: I made about 100 "observations" in and out of the contest on all bands 10-20m. My rig is an Icom IC706MKiiG, 100w NO amplifier. I did not use any signals which where extrememly strong >s9. These consisted of a direct comparison with my Cuschraft R6000 (6-20m) vertical AND turnig the hexbeam to determine its pattern response. Transmit reports/observations seemed to be the same as my receive observations:
1) For about 20 percent of the observations, each antenna clearly had an advantage. Example: 10 percent of the time the signal was at least 3 S-units weaker on the Heaxbeam the the R6000, and the other 10% was the opposite. I atribute this to polarization of the path and the angle of arrival.
2) In about 30 percent of the cases, small differences of less than 1 S-unit were noted, either way (R6000 or Hexbeam).
3) In about 50 percent of the cases, the Hexbeam had a 1-3 S unit advantage.
4) I think the pattern data generated from the EZNEC model is relatively accurate although I do not observe the deep nulls and high front-to-back others have reported. Main lobe is so wide it allows me to NOT turn the antenna unnecessarily. Finland, UK, France, Spain, and the Canaries are all at about the same dB level so why burn up rotar life? Reorientation tests looking at the differences (again S meter differences) seem to confirm this wide main lobe.

My only operating problem is high SWR on 15 and 17 m, I have to use my tuner on these bands. Otherwise SWR is great on all other bands.

If you are looking for 3 or 4 element monoband performance on everyband you will not get it with this system. You will get an excellent balance of size vs performance and ease of construction. You will get an antenna which can stand up to harsh climates. The quality of the antenna material is fabulous and I have every expectation that the antenna will last a long time. No big tower, no hughe guy wires no huge rotar make it great for improving a station in a small footprint.

Last note--I would suggest more research into Hexbeam's pattern and performance from a academic viewpoint. It should be relatively easy to get some academic interest in this from the standpoint of "electrical engineering departments always need good research projects for masters and Ph.D students." Some of these might me able to make range measurements and document the Hexbeam from a theoretical perspective, describing the antenna based upon Maxwell's equations and determing performance based upon calibrated measurements". The only problem would be arranging the department to purchase one of these antennas. If we could convince the school to buy one for a project with the vision of it becoming the antenna for their school's club station then some of the unknowns in Hexbeam technology might become documented. Maybe the group could do some

brainstroming on this topic.

Chris wo8usa@...
wo8usa@...

487. Re: Hexbeam 201 up; results and operating observations

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-10 14:22:54 UTC
From: w4wb
Topic: 486 Message: 487

Hi Chris,

Thanks for a FB report on #201. Your comments about higher SWR on 15 and 17 m strikes me as odd considering all of us (even Herb) don't suffer this problem. Look at the posted SWR values by WB6ROH, JR1NHD, and W4WB. As I recall, WB6ROH has his HB at about the same height as you do. On 20 m, the primary effects (relative to having it at 38-40') are a little gain reduction, deeper null at 180 degrees, and, most importantly, a higher TOA of 5+ degrees. Although the HB works nicely at 30ish feet, a lower TOA realized by getting it up a bit more can help your DXing I bet. WB6ROH also uses a hortical antenna. There have been a few times he was stronger on the hortical than the HB when we talked on 10 m. As you said Chris, propagation and polarization play a significant role.

Perhaps you should discuss the SWR issue with Traffie. Are you sure you are seeing a real problem or a measurement problem. For example, have you shunted any currents flowing on the exterior of the coax shield? Have you tried adding a coax jumper of say 10' to see if that changes the SWR?

GL in the CQ DX Contest!

73 de Barry - W4WB

--- In hex-beam@y..., "wo8usa" <wo8usa@y...> wrote:
> This is mainly for people considering a Hexbeam but may be of
> interest to others too:
>
> Hexbeam #201 went up here in Dayton, Ohio on a cold snowy day, wind
> chills about 0 degrees with flurries. <SNIP>
> Chris wo8usa@a...
> wo8usa@y...

488. File Download Problem

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-10 15:37:22 UTC
From: Joe Caluda
Topic: 488 Message: 488

I have tried three times to download the new file from the "five-nine" magazine but keep getting an error message halfway through.
Anyone else having this problem?
Thanks
Joe AA5HP

489. Re: File Download Problem

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-10 15:51:11 UTC
From: w4wb
Topic: 488 Message: 489

Hi Joe,

I just tried it and it worked FB. If I left-click on the link, then Adobe Acrobat opens up. It takes a bit of time for the document to show up since the file is over 2 MB. If I right-click and select Save Target As..., then the file is downloaded into a target directory to be opened later with Acrobat. With my Internet connection, it took about 40 seconds after Yahoo! decided to link me in. :-)

If you continue to have problems, email me and I will send it directly to you.

73 de Barry - W4WB

--- In hex-beam@y..., Joe Caluda <jkcal@p...> wrote:
> I have tried three times to download the new file from the "five-nine"
> magazine but keep getting an error message halfway through.
> Anyone else having this problem?
> Thanks
> Joe AA5HP

490. Traffie Fiberglass type?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-10 21:40:16 UTC
From: genesisjoe2001
Topic: 490 Message: 490

I have just fabricated my center hub and need some info on the type of spreaders that Traffie uses or that a hex user can recommend.
Should I use solid fiberglass rods like those sold by Max Gain Antenna systems or should I use hollow/tapering poles like those used for quad spreaders?
The rods come in 8-foot lengths and the 1/2" diameter runs about $6.00 each.
The quad spreaders are two piece9 8 foot each) that when put together telescope to 15 feet.
I am homebrewing a 5-band model and can use a 1.5' wooden dowel as the first part extruding from the center hub thus giving me the 9 1/2 feet needed for 20 meters.
Thanks for any and all input.
Joe AA5HP

491. Barry's message

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-11 01:12:14 UTC
From: Meiselman
Topic: 491 Message: 491

Dear H-B Friends (and Barry):

I have just received the March 10, 2002 email from Barry (W4WB) to Chris regarding the high SWR noted by Chris.. Most of the content is clear, but I do have a problem with one area: the second sentence contains the words "...considering all of us (even Herb)...".

What does this mean? Am I not part of the HB Group? Just because my HB antenna is 25 feet below ground level does this make me less of a person. So what if most of my QSOs are with worms and moles? They have feelings!

I am still upset that no one has responded to my March 8 email regarding the K6HJM Painting Service LLC...we do antennas right! But to now be singled out merely because I have the first underground HB system...this is too much.

I trust that there will be a prompt and appropriate response from W4WB!

73s

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

492. Re: Herb's SWR (Subterranean Wireless Radio)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-11 01:52:25 UTC
From: w4wb
Topic: 491 Message: 492

Herb,

Low SWR doesn't mean Subterranean Wireless Radio. ;-) Leave the poor worms alone; however, moles are a different matter.

Actually for those that don't know about Herb's installation and his SWR saga, you might want to read some of the earlier posts. His HX-5Bi is about 7' above his 2nd-story flat-roof (and his lucky to have it that high from what he has said). The antenna's SWR was oddly high. Of course, having it close to the roof detuned it a bit. Long story short, WB6ROH and I helped Herb to sort out the problem over a period of a week or so. His SWR returned to acceptable values on all bands and he started Hexing some good DX.

My point to Chris WO8USA was that his high SWR on 15 and 17 m with the HX-5Bi at 30ish feet just shouldn't be considered normal. Herb's Draconian mounting treatment of his Hex-Beam was simply an example of the fact that the SWR should be acceptable in Chris's case. Alan K2ACB also has a low roof-mounted HB except he has a peaked roof-line and his SWR is OK. WB6ROH also has his HB lower than recommended by Traffie. Doug got a 33 from a Nepal station the other day. Perhaps it would have been 44 or so if he had the HB a bit higher, but as Doug said, "I'll take 33 any day and have it in the log!" (or something like that).

I'm not even going to touch that painting offer of yours Herb.

73 de Barry - W4WB
Moderator

p.s. Yes Herb, you are a part of the HB Group! :-)

--- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> Dear H-B Friends (and Barry):
>
> I have just received the March 10, 2002 email from Barry (W4WB) to Chris regarding the high SWR noted by Chris.. Most of the content is clear, but I do have a problem with one area: the second sentence contains the words "...considering all of us (even Herb)...".
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to now be singled out merely because I have the first underground HB system...this is too much.
>
> I trust that there will be a prompt and appropriate response from W4WB!
>
> 73s
>
> Herb K6HJM

493. Re: [hex-beam] Traffie Fiberglass type?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-11 07:09:39 UTC
From: David Douglass
Topic: 490 Message: 493

Joe,

Since mine is made of wood, I cannot speak with any real authority, but I would go for the hollow tubes. I tend to think this would be more rigid and a little less springy??

I wish I had your dilemma, as I can't get the bloody stuff out here at all.

David, VK2DPD
----- Original Message -----
From: genesisjoe2001
To: hex-beam@yahoogroups.com
Sent: Sunday, March 10, 2002 9:40 PM
Subject: [hex-beam] Traffie Fiberglass type?

I have just fabricated my center hub and need some info on the type of spreaders that Traffie uses or that a hex user can recommend.
Should I use solid fiberglass rods like those sold by Max Gain Antenna systems or should I use hollow/tapering poles like those used for quad spreaders?
The rods come in 8-foot lengths and the 1/2" diameter runs about $6.00 each.
The quad spreaders are two piece9 8 foot each) that when put together telescope to 15 feet.
I am homebrewing a 5-band model and can use a 1.5' wooden dowel as the first part extruding from the center hub thus giving me the 9 1/2 feet needed for 20 meters.
Thanks for any and all input.
Joe AA5HP

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[Non-text portions of this message have been removed]

494. Should I buy it....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-11 15:13:36 UTC
From: Nick J Chiarchiaro, CET
Topic: 494 Message: 494

Hi Everyone,

I thought I would pose this question here:

1) I like to work 6m SSB, instead of the Cushcraft A503S which would you choose?

2) I am also looking for a beam to replace my Cuschcraft World Ranger Rotatable Dipole on 40-10. I am looking to get beam performance on 20-15-10M and was thinking of the Cushcraft A3S(??model #??)

So I am willing to string a wire dipole up in my trees for 80-40 but I want real beam performance on 6, 10, 15 and 20M.

My QTH location is about 735' (as per the GPS) and the antenna will be mounted about 40' above ground on my roof...I am on a 1acre lot and I do not need to worry about turnng radius..heck the worlranger dipole was 35" long....

All antenna points are Radio Shack rotators with re-enforced eve mounts...basically through bolted with 2x6 supports behind and anchored as well.

The World RAnger DIpole has been up in the Northwest NJ WX for the past 6 years with no problems at all....in structure or performance for what it was designed for..

So with that said I am basically looking for some beam performance without going throught the expense of putting up a small tower to support a larger array.

Do you think the HEXBeam is a good choice?

How do you feel about the Pac version as I would like to use it prtable when i am in vermont on 20/10 & 6m QRP....

thanks for any info....

NIck

_____
Nick J. Chiarchiaro CET
ICQ#:3019421
Current ICQ status:

SMS: (Send an SMS message to my ICQ): +27831423019421
More ways to contact me: http://wwp.icq.com/3019421
_____

[Non-text portions of this message have been removed]

495. (no subject)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-11 18:11:50 UTC
From: Herbert Meiselman
Topic: 495 Message: 495

Dear All:

I concede and accept defeat! I wish to thank all my supporters, friends, and my dog, but the outcome is clear: Barry's response to my HB antenna being below ground was the winner!

SWL=Subterranean Wireless Radio. Great job by Barry.

Now you won't have Herb to kick around any more!

73s,

Herb K6HJM

PS: I wonder if I can use my SWR for control of subterranean termites?

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

496. 3 Element Hex?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-11 21:35:34 UTC
From: Joe Caluda
Topic: 496 Message: 496

Has anyone modeled a 3 element hex configuration?
I would love to know how it compares to a standard three element yagi.
I wonder if the third element would be a mirror image of the driven or be set up in the same direction.
Look forward to the thoughts and replies.
Joe AA5HP

497. Hexbeam 201 Experience

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-12 00:02:05 UTC
From: wo8usa
Topic: 497 Message: 497

All,

I posted a message about my install and operations here in Dayton but realized it was never seen by anyone! I will try to restate it here:

I got my HX5Bi up before the ARRL SSB DX Contest. I have kept track of my operations. No, the comparisons are not apples-apples. I compared the Hexbeam to the Cushcraft R600 Vertical.
--I noted about 10% of the time the Hexbeam was a clearwiner, albeit by the inexact >3 S units. I owe this to polarization differences.
--10% of the time the Cushcraft R600 was the clear winner. I owe this to polarization differences.
--30% of th time there was 1 S unit or less of difference
--50% of the time Hexbeam was 1-2 S units stronger.

I have not noticed the high F/B ratio. But I believe in general the pattern in EZNEC is relatively correct. The antenna will not deliver 5 band monoband performance and is not a miracle antenna. But as far as performance vs size and ease of operation and required infrastructure, it is a definite winner.

W8AC's website should be added to the instruction manual. Its a must. With both in hand the antenna construction time took about 90 minutes. Having the antenna preassembled is a great plus for the antenna.

More instructions need to be given on "just how do I get this thing up in the air".

A lightweight rotar is all that's needed. I got mine at Radioshack, $70.00.

I use a Rohn 30 foot push up mast mounted to a 12 foot 4x4 post, with guying at the upper most levels. The 4x4 gives a lot of support especially during initial mounting. Its 3' in the ground too to help with support. I got my guys from Radioworks, non-metalic heavy duty stealth rope.

I cannot say enough about Traffie and his guarantee of "If you don't like it just send it back in original condition". I do have SWR problems on 17 and 15 m so must use my tuner. Also, the wrong bottom assembly on my hub mount was attached so I had to drill my own holes. I am sure they would have shipped me a new one but I was not in a situation to wait.

I have a A3S in my neighborhood--no comparison in size or visibility. Paint it all flat grey and its hardly noticable.

I plan to put a positive review, similar to this, on E-ham. I would but the antenna again.

Hope this helps anyone thinking about the antenna, sorry the original, elegant description of my zero degree day in Dayton.

Chris wo8usa@...
wo8usa@...

498. Re: [hex-beam] Hexbeam 201 Experience

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-12 07:37:38 UTC
From: David Douglass
Topic: 497 Message: 498

Chris,

A very nice appraisal and good going. However, I would be careful with your comments about the Hex no being a "Miracle Antenna", as you may get struck off the list by some of our more fundamentalist members in the ranks!!

All the best and look forward to working you soon.

David, VK2DPD
----- Original Message -----
From: wo8usa
To: hex-beam@yahoogroups.com
Sent: Tuesday, March 12, 2002 12:02 AM
Subject: [hex-beam] Hexbeam 201 Experience

All,

I posted a message about my install and operations here in Dayton but realized it was never seen by anyone! I will try to restate it here:

I got my HX5Bi up before the ARRL SSB DX Contest. I have kept track of my operations. No, the comparisons are not apples-apples. I compared the Hexbeam to the Cushcraft R600 Vertical.
--I noted about 10% of the time the Hexbeam was a clearwiner, albeit by the inexact >3 S units. I owe this to polarization differences.
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Chris wo8usa@...
wo8usa@...

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[Non-text portions of this message have been removed]

499. Re: Should I buy it....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-12 13:35:16 UTC
From: w4wb
Topic: 494 Message: 499

Hi Nick,

You might like to read the prior messages to find answers and to look at the files, photos, and bookmarks.

Sounds like you might could do well with a HX-5Bi (5-band --- 10-20 m) and the 6 m HB. However, if you have the room, put up a bigger 6 m Yagi rather than the HB. Use wire antennas for 40 and 80 m.

The HEX-PAC works fine (30' height). For what I have heard, it takes about 15 minutes to change from one band to another.

73 de Barry - W4WB

--- In hex-beam@y..., "Nick J Chiarchiaro, CET" <njc@w...> wrote:
> Hi Everyone,
>
> I thought I would pose this question here:
>
> 1) I like to work 6m SSB, instead of the Cushcraft A503S which would you choose?
>
> 2) I am also looking for a beam to replace my Cuschcraft World Ranger Rotatable Dipole on
> 40-10. I am looking to get beam performance on 20-15-10M and was thinking of the Cushcraft A3S(??model #??)
>
> So I am willing to string a wire dipole up in my trees for 80-40 but I want real beam performance on 6, 10, 15 and 20M.
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> My QTH location is about 735' (as per the GPS) and the antenna will be mounted about 40' above ground on my roof...I am on a 1acre lot and I do not need to worry about turnng radius..heck the worlranger dipole was 35" long....
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>
> Do you think the HEXBeam is a good choice?
>
> How do you feel about the Pac version as I would like to use it
prtable when i am in vermont on 20/10 & 6m QRP....
>
> thanks for any info....
>
> NIck

500. Re: [hex-beam] Re: Should I buy it....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-12 13:46:50 UTC
From: Makoto Tanaka
Topic: 494 Message: 500

Hi,

I also wish to have 6m beam below HX-5Bi but am concerned if Hex may be affected due to close distance between two antennas. Did anyone experience Xmas tree and see any bad affect on SWR for Hex?

BTW, thank you for reading my article, especially thanks to Barry to make a pdf file and post it.

73, JR1NHD - Shin

----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Tuesday, March 12, 2002 10:35 PM
Subject: [hex-beam] Re: Should I buy it....

Hi Nick,

You might like to read the prior messages to find answers and to look at the files, photos, and bookmarks.

Sounds like you might could do well with a HX-5Bi (5-band --- 10-20 m) and the 6 m HB. However, if you have the room, put up a bigger 6 m Yagi rather than the HB. Use wire antennas for 40 and 80 m.

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> My QTH location is about 735' (as per the GPS) and the antenna will be mounted about 40' above ground on my roof...I am on a 1acre lot and I do not need to worry about turnng radius..heck the worlranger dipole was 35" long....
>
> All antenna points are Radio Shack rotators with re-enforced eve mounts...basically through bolted with 2x6 supports behind and anchored as well.
>
> The World RAnger DIpole has been up in the Northwest NJ WX for the past 6 years with no problems at all....in structure or performance for what it was designed for..
>
> So with that said I am basically looking for some beam performance without going throught the expense of putting up a small tower to support a larger array.
>
> Do you think the HEXBeam is a good choice?
>
> How do you feel about the Pac version as I would like to use it prtable when i am in vermont on 20/10 & 6m QRP....
>
> thanks for any info....
>
> NIck

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[Non-text portions of this message have been removed]

501. Plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-13 11:40:32 UTC
From: George Shaw
Topic: 495 Message: 501

Gents

Where are plans available for the Hex, particularly details of the feeder etc. I have been asked by others as I will probably buy mine.

--
George Shaw

eMail: george.shaw@...
eMail: george.shaw@...
Home: +44 (0) 28 9062 8924
Mobile: +44 (0) 77 4036 1163
ICQ#: 1741675

502. Center Post Feedpoint Spacing?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-13 13:37:09 UTC
From: Joe C
Topic: 502 Message: 502

Can a Hex Owner tell me the spacing on the center post between the 5 feedpoint locations on the 5-Band HX5 model.
I approximate that the distance bewteen the 20 and 17 meter attatchment points is about 8 inches .
Hoe off am I?
Thanks for the help.
Joe AA5HP

503. Re: [hex-beam] Center Post Feedpoint Spacing?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-13 19:46:13 UTC
From: David Douglass
Topic: 502 Message: 503

Joe this all depends on how "bendy" your spreader arms are, but my homebrew one had a spacing if about 18-19 inches.

David, VK2DPD
----- Original Message -----
From: Joe C
To: hex-beam@yahoogroups.com
Sent: Wednesday, March 13, 2002 1:37 PM
Subject: [hex-beam] Center Post Feedpoint Spacing?

Can a Hex Owner tell me the spacing on the center post between the 5
feedpoint locations on the 5-Band HX5 model.
I approximate that the distance bewteen the 20 and 17 meter attatchment
points is about 8 inches .
Hoe off am I?
Thanks for the help.
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[Non-text portions of this message have been removed]

504. Re: Plans and dimensions of the Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-13 19:45:48 UTC
From: n6tz
Topic: 502 Message: 504

For those that want the dimensions of the commercial HexBeam, I believe that it will be most difficult to "clone" a copy of it.

You must understand that the center post of the Hex has a "twin feed" type of Open Line bus going down the inside of the vertical PVC pipe, and it feeds the various driven elements for the bands. There are many factors involved with this kind of feed. The type of wire, the guage, distance between bands, and the type of insulation on the wire will all figure in on determining the impedance of the line. The impedance of this line is critical to matching the driven elements, as the driven elements are cut to give matching for a low SWR with this exact twin feed system.

As each driven element and reflector was trimmed and cut for matching, all the other driven elements would vary from their previous cut&match. So Traffie had their hands full in doing this "chasing-the-tail" tune up. Once it was completed, the matching twin lead in the feed system had to made exactly the same for all future Hexbeams to preserve repeatable SWR matching and performance.

Now the catch. I am not going to disassemble the center matching system to see what makes the feed lines, and I don't know anyone that would. It would ruin the system to do so. I guess that what this means is that if you want to make a homebrew Hex beam, then you are on your own. I am glad I bought mine before the price went up.

Hal, N6TZ

--- In hex-beam@y..., Joe C <jkcal@p...> wrote:
> Can a Hex Owner tell me the spacing on the center post between the
5
> feedpoint locations on the 5-Band HX5 model.
> I approximate that the distance bewteen the 20 and 17 meter
attatchment
> points is about 8 inches .
> Hoe off am I?
> Thanks for the help.
> Joe AA5HP

505. Re: [hex-beam] Re: Plans and dimensions of the Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-13 20:07:46 UTC
From: David Douglass
Topic: 502 Message: 505

Which is pretty much why I will be individually feeding all the elements on my next version, although I like to think I have pretty much shown that good performance can be had with little effort (all be it, not necessarily good SWR).

For homebrewing a multi-feed I would recommend having the feed outside the post for easy adjustment and playing about with it. Although the feed line inside the post may play a role in producing a good SWR, I don't think even major changes in wire type and spacing will effect performance all that much.

And Hal, were has the spirit of adventure gone. I thought it was a pre-requisite of being a Ham, that the first thing you did with new gear was take it apart and find out how it works. I'm sure that's in the licensing requirements in Australia. You guys in the US but all be getting soft!!

Regards All

David
----- Original Message -----
From: n6tz
To: hex-beam@yahoogroups.com
Sent: Wednesday, March 13, 2002 7:45 PM
Subject: [hex-beam] Re: Plans and dimensions of the Hex Beam

For those that want the dimensions of the commercial HexBeam, I
believe that it will be most difficult to "clone" a copy of it.

You must understand that the center post of the Hex has a "twin feed"
type of Open Line bus going down the inside of the vertical PVC pipe,
and it feeds the various driven elements for the bands. There are
many factors involved with this kind of feed. The type of wire, the
guage, distance between bands, and the type of insulation on the wire
will all figure in on determining the impedance of the line. The
impedance of this line is critical to matching the driven elements,
as the driven elements are cut to give matching for a low SWR with
this exact twin feed system.

As each driven element and reflector was trimmed and cut for
matching, all the other driven elements would vary from their
previous cut&match. So Traffie had their hands full in doing
this "chasing-the-tail" tune up. Once it was completed, the matching
twin lead in the feed system had to made exactly the same for all
future Hexbeams to preserve repeatable SWR matching and performance.

Now the catch. I am not going to disassemble the center matching
system to see what makes the feed lines, and I don't know anyone that
would. It would ruin the system to do so. I guess that what this
means is that if you want to make a homebrew Hex beam, then you are

on your own. I am glad I bought mine before the price went up.

Hal, N6TZ

--- In hex-beam@y..., Joe C <jkcal@p...> wrote:
> Can a Hex Owner tell me the spacing on the center post between the
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> feedpoint locations on the 5-Band HX5 model.
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> Hoe off am I?
> Thanks for the help.
> Joe AA5HP

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506. Rens' Erection (WB3FSR)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-15 17:12:23 UTC
From: Peter D. Vouvounas
Topic: 506 Message: 506

First I'd like to say hello to all of the HEX Beam users / potential new users on this list.

I just recently discovered the existence of this list - An yes, I've read ALL 505 messages as of last evening.

I am having so much fun with this antenna. For example, in the ARRL DX phone contest a couple of weeks ago I made 1225 contacts. This antenna ROCKS! Living by the ocean here in New Jersey (The Shore) we get our share of high winds - So far the HEX Beam holds it's own.

My 5B HEX serial # is 136

Below, please find a little write up of the events in raising my HEX Beam "Rens Erection".

Also I've posted 33 pictures of the event: In a separate posting I'll identify the players.

http://photos.yahoo.com/wb3fsr Click here for Pix's

==========
Ren?s HEXED Erection the Day After (WB3FSR)

What a crew - I owe all of you a great big THANKS!!!! Job well done.

A lot of teamwork came into play, not to mention sore arms & legs, sunburn and I'm sure lots of fun.

Wow, how would one put this into words? Most would have a hard time believing this came together as it did.

First we have Frank KF2FI, rode his motorcycle all the way from the Pocono Mountains and arrived just at the right minute as we teetered this mass in the air. Next, we have Sid N3JHV; AKA Stimpy through his persistence used his pickup at just the right angle to support this massive erection. Just another sign of Super Stimpy behind the wheel. Bruce N2NAG, who made us laugh and cry throughout this ordeal as well as keeping Frank in control, well maybe. Charley, the roof admiral who surly saved our butts from electrocution.

Now Dave KD2E needs a section all to himself. He was the wise one taking this all in. Similar to an eagle perched on the rooftop, Dave in many instances handles the business end of this massive mastodon single handedly. Since this was Dave's first association with this motley crew known as the Ren & Stimpy Sea food Group, it will be most interesting to get his thoughts over the next few days.

Throughout the day, we had many people stopping, starring, and asking questions. These included smatterings of weirdo?s like the guy who stopped his car in the middle of a busy intersection for a good five minutes with nothing to say. Yes Sid he qualified as a mumbler!

Now for the all time best event that pulled this all together. Out of no where, at just the right microsecond a family pulls up with their car in front of the operation at hand. Let's paint the picture a bit better - the crew is struggling to hold the assembly horizontally in the air around 20'feet above ground. Ladders are flying; the earth appeared to be rocking giving way any minute to a catastrophe of bent metal, house destruction, the crew harpooned by flying elements. When a little voice just discernable over screaming mussels and anxiety sez we have a crane two blocks away, would you like us to drive it over. Yes Yes Yes. Just when most felt no way would we be able to raise this contraption the answer came.

Boy, did it sparkly in the sunlight; sitting on its new perch this array of fiberglass and aluminum looks like it's reaching towards Mars.

We worked into the late night running cables around the tower/roof, the attic and into the basement. Over the next day or two I should get this labyrinth of anacondas connected - More to follow:

73 de REN WB3FSR 7/23/2001

Regards,

PeterV [REN] WB3FSR
==========
Peter D. Vouvounas Ofc: 732-701-1130
Cell:732-674-4001
98 Meridian Dr.
Brick, NJ 08724
Mailto: wb3fsr@...
InterActive 2way: wb3fsr@...
==========

507. Team Member Index (REN's Erection) photo's

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-15 17:25:07 UTC
From: Peter D. Vouvounas
Topic: 507 Message: 507

Location:

http://photos.yahoo.com/wb3fsr

Photo ID: #6, Antenna Party 1 - Bruce, N2NAG

Photo ID: #8, Antenna Party 3 - Me! REN WB3FSR

Photo ID: #9, Antenna Party 4 - Dave KD2E

Photo ID: #10, Antenna Party 5 - Charley Roof Admiral (Professional Roofer 40 years) and my brother in-law

Photo ID: #13, Antenna Party 8 - Stimpy Sid N3JHN

Photo ID: #19, Antenna Party 14 - Frank (PTM Powered Toast Man)at least his back side hihi KF2FI

Photo ID: #29, Antenna Party 24 - My wife Barbara N2THE

I hope you enjoy the pix's - This antenna party was just like an episode of REN & Stimpy!

73

PeterV [REN] WB3FSR
==========
Peter D. Vouvounas Ofc: 732-701-1130
Cell:732-674-4001
98 Meridian Dr.
Brick, NJ 08724
Mailto: wb3fsr@...
InterActive 2way: wb3fsr@...
==========

508. Ferrites for Baluns Do we have the facts????

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-15 18:18:52 UTC
From: Peter D. Vouvounas
Topic: 508 Message: 508

Do we have any real world facts on using ferrites attached to the transmission line?

Power Loss?

Heating?

10 Meters - Any loss of RX or TX

How far from the HEX beam can one install them? Now that the antenna farm is up I can only get within five feet of the bottom of the HEX...

Any real world experience one might share i.e. before and after installing ferrites - How many and where?

Running 150 to 1500 watts from my station - I have RFI issues to resolve in my home Entertainment Systems- Stereo's, TV's, VCR's, Cable TV, Computer spkrs.

All phone RFI cured by replacing phones with Panasonic 2.4Ghz Gigarange & Extreme phones!!! Crystal clear at any power level.

Hex Beam mounted 38' AGL to bottom of HEX - using two 3" wide solid copper straps from base of tower on roof to ground rods All equip in shack bonded to common ground - using six rods tied together - Radio works T-4 Line Isolator between Kenwood TS950SD and Emtron DX-2sp Amp and second T-4 on output of Amp.

73

REN WB3FSR

509. HEX BEAM detailed Pix's?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-15 18:26:09 UTC
From: Peter D. Vouvounas
Topic: 509 Message: 509

When Stimpy and I assembled the 5 Band Hex Beam we took 80 digital pix's of the components and assembly.

Would it be helpful to upload them ????

73

REN WB3FSR

510. Thoughts on Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-15 18:36:16 UTC
From: Peter D. Vouvounas
Topic: 510 Message: 510

Spoke with Mike Traffie (Mr. HEX) this morning and he said hello to all list members.

During our conversation the subject of Dayton Hamfest came up. Mike and his team will be attending this year. Mike went on to say that he heard that some folks might be getting together but so far he has had no invites.

Any interest in a HEX user get together for dinner or drinks while in Dayton??? Maybe Saturday night?

73,

REN WB3FSR

p.s. I will be attending CTIA wireless conference next week in Orlando - should anyone want to reach me. Use the wireless email address Sunday - Thursday...

==========
Peter D. Vouvounas Ofc: 732-701-1130
Cell:732-674-4001
98 Meridian Dr.
Brick, NJ 08724
Mailto: wb3fsr@...
InterActive 2way: wb3fsr@...
==========

511. RE: [hex-beam] Thoughts on Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-15 18:45:46 UTC
From: John Caulfield
Topic: 510 Message: 511

I vote for Thursday or Friday . Can?t stay over Saturday night.

K?FUZ

John Caulfield
Cleaves-Bessmer-Marietti, Inc.
johnc@...
www.cbmrep.com
816.353.6011
816.353.7277 Fax

-----Original Message-----
From: Peter D. Vouvounas [mailto:wb3fsr@...]
Sent: Friday, March 15, 2002 12:36 PM
To: Hex-Beam
Subject: [hex-beam] Thoughts on Dayton Get Together?

Spoke with Mike Traffie (Mr. HEX) this morning and he said hello to all list members.

During our conversation the subject of Dayton Hamfest came up. Mike and his team will be attending this year. Mike went on to say that he heard that some folks might be getting together but so far he has had no invites.

Any interest in a HEX user get together for dinner or drinks while in Dayton??? Maybe Saturday night?

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REN WB3FSR

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Peter D. Vouvounas Ofc: 732-701-1130
Cell:732-674-4001
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3eM=215002.1818248.3328688.1261774/D=egroupweb/S=1705063108:HM/A=847665/R=1>

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512. RE: [hex-beam] Thoughts on Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-15 19:54:22 UTC
From: George Shaw
Topic: 510 Message: 512

Yep if you want an Irish contingent count us lot in...

--
George Shaw

eMail: george.shaw@...
eMail: george.shaw@...
Home: +44 (0) 28 9062 8924
Mobile: +44 (0) 77 4036 1163
ICQ#: 1741675

-----Original Message-----
From: Peter D. Vouvounas [mailto:wb3fsr@...]
Sent: 15 March 2002 18:36
To: Hex-Beam
Subject: [hex-beam] Thoughts on Dayton Get Together?

Spoke with Mike Traffie (Mr. HEX) this morning and he said hello to all list members.

During our conversation the subject of Dayton Hamfest came up. Mike and his team will be attending this year. Mike went on to say that he heard that some folks might be getting together but so far he has had no invites.

Any interest in a HEX user get together for dinner or drinks while in Dayton??? Maybe Saturday night?

73,

REN WB3FSR

p.s. I will be attending CTIA wireless conference next week in Orlando - should anyone want to reach me. Use the wireless email address Sunday - Thursday...
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Peter D. Vouvounas Ofc: 732-701-1130
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==========

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513. Re: Ferrites for Baluns Do we have the facts????

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-15 20:04:32 UTC
From: w4wb
Topic: 508 Message: 513

Ren, nice pics and story about your installation. Answers a few recent question folks had about stacking up antennas.

Re. the ferrites, read W2UN's book (Reflections II). Basically, you are not going to overload the ferrites unless you have a VERY poor system. They only "see" the current flowing on the outside of your coax shield. It is not overly critical how close to the antenna you put them, but try to get as close as possible to keep the line between the ferrites and the connection to the antenna as short as possible while keeping them below the base of the Hex-Beam. I run 1000+ all the time with no problems. Herb does as well (when he is not warming the moles and worms).

I prefer Type 73 material, but #43 works OK. Presently I'm using #43 since I could get it cheap from All Electronics. #43 is really better for VHF, but works OK in the HF bands of 10-20 m. THe Curie temp of #43 is lower than I would generally like, but OK under most conditions. #73 has a much higher Curie temp and HF characteristics.

When we made the latest unit, we used 10 beads. THey were epoxied together, slipped over the coax, and then held in place with a big old section of heat shrink. Don't epoxy the beads together however.

When I was using the air balun, I had to put a second one at the rig to keep 17 and 15 m out of the company's phone system. When I get around to it, I will place a second set of beads near the rig.

Hope that help answer you questions.

Again, nice installation Ren. Might show up on the main page soon. ;-)

73 de Barry - W4WB

--- In hex-beam@y..., "Peter D. Vouvounas" <wb3fsr@c...> wrote:
> Do we have any real world facts on using ferrites attached to the
> transmission line?
>
> Power Loss?
>
> Heating?
>
> 10 Meters - Any loss of RX or TX
>
> How far from the HEX beam can one install them? Now that the antenna farm
> is up I can only get within five feet of the bottom of the HEX...

>
> Any real world experience one might share i.e. before and after
installing
> ferrites - How many and where?
>
> Running 150 to 1500 watts from my station - I have RFI issues to
resolve in
> my home Entertainment Systems- Stereo's, TV's, VCR's, Cable TV,
Computer
> spkrs.
>
> All phone RFI cured by replacing phones with Panasonic 2.4Ghz
Gigarange &
> Extreme phones!!! Crystal clear at any power level.
>
> Hex Beam mounted 38' AGL to bottom of HEX - using two 3" wide solid
copper
> straps from base of tower on roof to ground rods All equip in shack
bonded
> to common ground - using six rods tied together - Radio works T-4
Line
> Isolator between Kenwood TS950SD and Emtron DX-2sp Amp and second T-
4 on
> output of Amp.
>
> 73
>
> REN WB3FSR

514. Re: Thoughts on Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-15 20:09:03 UTC
From: w4wb
Topic: 510 Message: 514

Friday is better since Thursday is arrival day and setup for those of us having display booths (W4RT Electronics). I think a lunch time meeting might be fine.

73 de Barry - W4WB

--- In hex-beam@y..., "John Caulfield" <johnc@c...> wrote:
> I vote for Thursday or Friday . Can't stay over Saturday night.
> KØFUZ
> John Caulfield

515. Re: [hex-beam] Re: Thoughts on Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-15 20:26:43 UTC
From: Brad Sumner
Topic: 510 Message: 515

Friday lunchtime sounds good to me

Brad K0TRL

516. A92GE

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-15 20:47:21 UTC
From: robgerard
Topic: 516 Message: 516

A few moments ago, I was doing some work on the computer, took a brief break to look at DX Summit. Saw A92GE (Bahrein) on 12 mtrs, switched on the radio, turned the HX-5 at him, listened to the enormous pile-up, then put him in the log on the first call. Amazing...it happens all the time now, but I don't think I'll ever get used to it. 73 de Bob, K2WY.

PS Count me in for Dayton

517. Why

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-16 00:46:38 UTC
From: Herbert Meiselman
Topic: 517 Message: 517

As the old rock and roll song goes (sort of): Why is Barry always pickin' on me?

Just because I make silly comments like having my HB below ground level (actually only 7 feet above my roof), Barry calls this SWR...Subterranean Wireless Radio.

OK...to be serious. The beads work great and really please the neighbors and the wife...no more "K6HJM" coming out of the living room TV when the set is turned off! Really...it was most strange!

I worked Kuwait last night...I think. Was an American sounding voice, very much 59, easy to get, etc. But it was strange: without any obvious reason, he said "This is too exciting..I am going to bed" and just QRT. Nothing more! Was this real?

73s,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

518. Re: Why

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-16 02:57:43 UTC
From: melachri
Topic: 517 Message: 518

> I worked Kuwait last night...I think. Was an American sounding voice, very
> much 59, easy to get, etc. But it was strange: without any obvious reason,
> he said "This is too exciting..I am going to bed" and just QRT. Nothing
> more! Was this real?

Herb -

Was it 9K2ZZ? I worked him at 0043z on 20m SSB, and also thought it was easy, getting a 59 on the first call. The callsign is legit, and he has a US QSL manager.

Interesting thing was that I wasn't using a Hex-Beam, so I can't credit the antenna with the QSO like the rest of you. (I'm one of the lurkers here, and can only dream of the day when I will have a decent antenna.) My 20m antenna is a dipole in the attic. And the radio is a Yaesu FT-817, five watts out.

So I, too, am hoping this was real. We'll see--I mailed my QSL request this morning.

73,
Steve
W3HF

519. Please review this draft

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-18 16:01:38 UTC
From: JDAM
Topic: 519 Message: 519

Also, please look over the existing Acrobat annotations from our colleagues and let me know if those issues can be resolved.

à¡.

[Non-text portions of this message have been removed]

520. VP6DI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-18 20:02:45 UTC
From: David Douglass
Topic: 520 Message: 520

Hi Guys,

I would think your Hex-Beams are getting a good try out in the pile-ups for VP6DI?? Don't think I've ever seen such a mess on the band, although I suppose he is an all time new one. Good luck and hope you all make it!

David, VK2DPD
vk2dpd@...
vk2dpd@...

521. Re: [hex-beam] VP6DI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-18 20:09:55 UTC
From: Robert Gerard
Topic: 520 Message: 521

For a moment (eight minutes to be exact) I was worried about the old Hex.
The first night he was on the air, it actually took 8 minutes to work him on
15. Horrors.
----- Original Message -----
From: "David Douglass" <vk2dpd@...>
To: "HEX-BEAM" <hex-beam@yahoogroups.com>
Sent: Monday, March 18, 2002 15:02
Subject: [hex-beam] VP6DI

> Hi Guys,
>
> I would think your Hex-Beams are getting a good try out in the pile-ups
for
> VP6DI?? Don't think I've ever seen such a mess on the band, although I
> suppose he is an all time new one. Good luck and hope you all make it!
>
> David, VK2DPD
> vk2dpd@...
> vk2dpd@...
>
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
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>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>
>
>

522. (no subject)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-18 20:22:48 UTC
From: Herbert Meiselman
Topic: 522 Message: 522

David:

The HB helps, but the pile up is amazing. Further, some of the callers have forgotten what they learned (?) when they got their first licence. Some 4-letter words, failure to understand split mode, etc, etc. Like kids fighting over a toy!!

Anyhow, I have yet to work VP6DI, but will do soon I hope...he is very loud in Los Angeles. However, I did work XR0X (or was it XR0R?) so the HB does well in a reasonable size pile up.

73s,
Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

523. VP6DI & XR0X

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-18 20:30:44 UTC
From: w4wb
Topic: 523 Message: 523

OK Guys, I can brag too. ;-) I got the XR0X on 12 m SSB on the first call the first night, although it took 9-10 tries on 12 m CW to get him. Now have him on other bands too.

The VP6DI piles are mess! 40 kHz wide at times! Took me about 5 minutes to work him on each 10 and 15 m SSB this morning. One call on 10 m and two calls on 15 m. I spent my time trying to hear where he was listening. Simple to do a polite, but tight tailgate and reap success.

Hex-Beam is doing its stuff (of course the Quadra and QRP-honed operating skills).

GL on working these two DXpeditions on all five bands!

Barry - W4WB

524. Re: Please review this draft

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-18 20:32:36 UTC
From: w4wb
Topic: 519 Message: 524

--- In hex-beam@y..., JDAM <jdam@p...> wrote:
> Also, please look over the existing Acrobat annotations from our colleagues and let me know if those issues can be resolved.
>
> à¡.
>
> [Non-text portions of this message have been removed]

What are you talking about pse?
Barry - W4WB
Moderator - HEX-BEAM Group

525. Re: [hex-beam]

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-18 20:49:52 UTC
From: Robert Gerard
Topic: 525 Message: 525

Herb, I couldn't agree with you more. I thought the behavior on 21225 for the P5 was bad enough, but these clwns set new low standards. If I had the time, I'd tape a few hours, transcribe it and publish it. It's disgusting.
Bob
----- Original Message -----
From: "Herbert Meiselman" <meiselma@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, March 18, 2002 15:22
Subject: [hex-beam]

> David:
>
> The HB helps, but the pile up is amazing. Further, some of the callers
> have forgotten what they learned (?) when they got their first
> licence. Some 4-letter words, failure to understand split mode, etc,
> etc. Like kids fighting over a toy!!
>
> Anyhow, I have yet to work VP6DI, but will do soon I hope...he is very
loud
> in Los Angeles. However, I did work XR0X (or was it XR0R?) so the HB does
> well in a reasonable size pile up.
>
> 73s,
> Herb K6HJM
>
>
>
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> Dept. Physiology and Biophysics
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> 1333 San Pablo Street, MMR 626
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> (323) 442-1268
> (323) 442-2283 [FAX]
> meiselma@...
>
>
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>
>

526. Re: VP6DI & XR0X

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-18 21:12:06 UTC
From: jr1nhd_shin
Topic: 523 Message: 526

Hi friends,

I found my Hex must be something wrong as I got VP6DI on 15m CW
after I called him for more than 4 hours....XR0X on 20m SSB/RTTY
about 10 minutes each....but I got D2U on 20m CW just one call
this morning. Packet cluseter makes pileups worse and worse hi !!

Shin - JR1NHD

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> OK Guys, I can brag too. ;-) I got the XR0X on 12 m SSB on the
first
> call the first night, although it took 9-10 tries on 12 m CW to get
> him. Now have him on other bands too.
>
> The VP6DI piles are mess! 40 kHz wide at times! Took me about 5
> minutes to work him on each 10 and 15 m SSB this morning. One call
on
> 10 m and two calls on 15 m. I spent my time trying to hear where
he
> was listening. Simple to do a polite, but tight tailgate and reap
> success.
>
> Hex-Beam is doing its stuff (of course the Quadra and QRP-honed
> operating skills).
>
> GL on working these two DXpeditions on all five bands!
>
> Barry - W4WB

527. Re: VP6DI & XR0X

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-18 23:39:02 UTC
From: ad1y1
Topic: 523 Message: 527

Hi all,

Well, Hex Beam serial number 4 bit the dust a month or so ago; the result of heavy winds and insufficient guying.

The new Hex Beam has been assembled and is awaiting raising to about 75 feet (hopefully) this weekend. (And the guying mistakes shall not be repeated.)

The antenna is now at 10 feet above the ground. As I told Mike earlier this afternoon XR0X and VP6DI went in the log with the antenna at 10 feet.

We spoke at some length about the relative benefits of various heights. I will post the results of the antenna at 75 feet. As stated above, the results at 10 feet have not been too shabby.

Best wishes and good luck.

73,

Tony, AD1Y

--- In hex-beam@y..., "jr1nhd_shin" <jr1nhd@m...> wrote:
> Hi friends,
>
> I found my Hex must be something wrong as I got VP6DI on 15m CW
> after I called him for more than 4 hours....XR0X on 20m SSB/RTTY
> about 10 minutes each....but I got D2U on 20m CW just one call
> this morning. Packet cluseter makes pileups worse and worse hi !!
>
> Shin - JR1NHD
>
>
>
> --- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> > OK Guys, I can brag too. ;-) I got the XR0X on 12 m SSB on the
> first
> > call the first night, although it took 9-10 tries on 12 m CW to
get
> > him. Now have him on other bands too.
> >
> > The VP6DI piles are mess! 40 kHz wide at times! Took me about 5
> > minutes to work him on each 10 and 15 m SSB this morning. One
call
> on
> > 10 m and two calls on 15 m. I spent my time trying to hear where

> he
> > was listening. Simple to do a polite, but tight tailgate and
reap
> > success.
> >
> > Hex-Beam is doing its stuff (of course the Quadra and QRP-honed
> > operating skills).
> >
> > GL on working these two DXpeditions on all five bands!
> >
> > Barry - W4WB

528. Pile Ups

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-19 02:07:00 UTC
From: w4wb
Topic: 522 Message: 528

Hi Herb,

Best cure for those problems is to work that DX guy quick and move on. Let the others stay and yell into the ether! :-)

It was XR0X you worked (#36 most needed). See http://cordell.vwh.net/SFX/ for more infor and some interesting info about the DXpedition. The site for VP6DI (#1 for now) is http://www.qsl.net/aa0mz/ducie.htm. Next big one is VK9ML Mellish Reef (#37) http://www.qsl.net/vk9ml/2002/ in about 24 more days. This place doesn't look like many folks vacation there.

Keep on Hexing the DX Herb!

73 de Barry - W4WB

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> David:
>
> The HB helps, but the pile up is amazing. Further, some of the callers have forgotten what they learned (?) when they got their first licence. Some 4-letter words, failure to understand split mode, etc, etc. Like kids fighting over a toy!!
>
> Anyhow, I have yet to work VP6DI, but will do soon I hope...he is very loud in Los Angeles. However, I did work XR0X (or was it XR0R?) so the HB does well in a reasonable size pile up.
>
> 73s,
> Herb K6HJM

529. Pile-Ups

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-19 10:13:04 UTC
From: David Douglass
Topic: 529 Message: 529

Good going all on the DX with the HEX. I've heard the Europeans taking a lot of flack in the past for causing QRM, but with VP6DI I've heard a fair proportion of idiots from all over the World (VK & ZL included). Fortunately they are both in the Log here, so I can turn off, put the Footy on TV and drink some beer.

73's from tropical NSW (37?C today - phew!!)

David, VK2DPD
vk2dpd@...
vk2dpd@...

530. Too high?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-19 21:56:25 UTC
From: Herbert Meiselman
Topic: 530 Message: 530

On March 17 at 2351 UTC I worked XR0X at 24.945...59 both ways!
On March 19 at 0442 UTC I worked VP6DI at 28.495...59 both ways!

Based on the above, I believe my HB is mounted too high, thus giving me an unfair advantage versus those with lesser antennas. To get a 59 on 10 meters late at night is unusual for me. I therefore plan to lower the antenna to ground level, or perhaps to slightly below ground level. As Barry The Elder points out: SWR=Subterranean Wireless Radio.

73s, Herb K6HJM

PS: I really did ask the VP6DI if I was a "real" 59 or was it just a nice way of confirming the contact...he said that it was real! So there Barry!!!

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Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

531. Re: [hex-beam] Too high?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-20 07:56:26 UTC
From: David Douglass
Topic: 530 Message: 531

Strange, VP6DI only gave me a 539 report !!

David, VK2DPD
----- Original Message -----
From: Herbert Meiselman
To: hex-beam@yahoogroups.com
Sent: Tuesday, March 19, 2002 9:56 PM
Subject: [hex-beam] Too high?

On March 17 at 2351 UTC I worked XR0X at 24.945...59 both ways!
On March 19 at 0442 UTC I worked VP6DI at 28.495...59 both ways!

Based on the above, I believe my HB is mounted too high, thus giving me an unfair advantage versus those with lesser antennas. To get a 59 on 10 meters late at night is unusual for me. I therefore plan to lower the antenna to ground level, or perhaps to slightly below ground level. As Barry The Elder points out: SWR=Subterranean Wireless Radio.

73s, Herb K6HJM

PS: I really did ask the VP6DI if I was a "real" 59 or was it just a nice way of confirming the contact...he said that it was real! So there Barry!!!

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Professor and Vice-Chair
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(323) 442-2283 [FAX]
meiselma@...

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[Non-text portions of this message have been removed]

532. VP6DI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-20 17:34:30 UTC
From: k5ppdx
Topic: 520 Message: 532

Worked 'em on 40 this morning. I used the Hex for receive since the Butternut was too noisy. I also worked XROX on 75 using the same procedure. Although the DX signal was a tad weaker, the noise floor was so much lower that it was the only way to hear through the hash and CB'ers. I am going to hook my antenna switch back in the line to use the MP's A/B antenna selector to set Hex automatically on receive in these situations. 73, Max K5PP

533. Out of band DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-20 20:09:17 UTC
From: David Douglass
Topic: 533 Message: 533

XR0X on 30M using the Hex last night - first call!!

CUL

David
vk2dpd@...
vk2dpd@...

534. Re: Out of band DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-21 00:32:31 UTC
From: w4wb
Topic: 533 Message: 534

Way to go David! I worked XR0X on 15 m CW, and VP6DI on 12 and 15 m CW this afternoon (11 band-modes so far). Just a few calls each. You know, Herb may be right about lowering the Hex-Beam to ground level just to make it a bit harder to snag the DX. Hey, how about turning it upside down too? OK, I'm kidding. :-)

73,
Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> XR0X on 30M using the Hex last night - first call!!
>
> CUL
>
> David
> vk2dpd@q...
> vk2dpd@b...

535. Re: [hex-beam] Re: Out of band DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-21 01:03:02 UTC
From: Brad Sumner
Topic: 533 Message: 535

Would turning it upside down lower the radiation angel????????

Brad K0TRL

537. Re: Out of band DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-21 04:56:04 UTC
From: w4wb
Topic: 533 Message: 537

Are you having an attack of paronomasia Brad? Perhaps there really is a radiation angel packed with each Hex-Beam --- works for me! ;-)

Herb would be the best to try the upside-down Hex-Beam since he could then cover and raise it higher above the roof than ever while claiming to his neighbors (and XYL) that it is a large umbrella for his roof top patio. He could then check out the lower radiation angle theory while being watched over by the radiation angel (proximate to Los Angeles). :-)

73 de Barry - W4WB

--- In hex-beam@y..., Brad Sumner <bsumner@s...> wrote:
> Would turning it upside down lower the radiation angel????????
>
> Brad K0TRL

538. Re: [hex-beam] Re: Out of band DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-21 09:21:30 UTC
From: David Douglass
Topic: 533 Message: 538

I can vouch that the Hex works well upside down. For us guys in the southern hemisphere there is no other way to have them.

David
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Thursday, March 21, 2002 4:56 AM
Subject: [hex-beam] Re: Out of band DX

Are you having an attack of paronomasia Brad? Perhaps there really is a radiation angel packed with each Hex-Beam --- works for me! ;-)

Herb would be the best to try the upside-down Hex-Beam since he could then cover and raise it higher above the roof than ever while claiming to his neighbors (and XYL) that it is a large umbrella for his roof top patio. He could then check out the lower radiation angle theory while being watched over by the radiation angel (proximate to Los Angeles). :-)

73 de Barry - W4WB

--- In hex-beam@y..., Brad Sumner <bsumner@s...> wrote:
> Would turning it upside down lower the radiation angel????????
>
> Brad K0TRL

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[Non-text portions of this message have been removed]

539. Re: HEX BEAM detailed Pix's?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-21 12:09:27 UTC
From: on4ccw
Topic: 509 Message: 539

--- In hex-beam@y..., "Peter D. Vouvounas" <wb3fsr@c...> wrote:
>
> When Stimpy and I assembled the 5 Band Hex Beam we took 80 digital
pix's of
> the components and assembly.
>
> Would it be helpful to upload them ????
>
> 73
>
> REN WB3FSR

Please do cause i'm trying to make a homebrew-model (multiband) The
hex-plate is finished and i have found spreaders that hopefully will
do the job.
Since i'm new : Hi to all!
Peter
ON4CCW

540. Photographs

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-21 12:51:34 UTC
From: w4wb
Topic: 540 Message: 540

When you upload photos to this group, please put them in the Photos section, not the Files section. Also, if you have more than one or two, then create a folder and locate your photos in the folder. Also, please use your call sign with each so it is easy for people to know the source.

Tnx es 73,
Barry - W4WB
Moderator

541. Re: [hex-beam] Re: HEX BEAM detailed Pix's?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-21 13:02:02 UTC
From: Sain'T Tom
Topic: 509 Message: 541

I'd like to see those photos, please.

Thanks/73
Tom K4RV
----- Original Message -----
From: on4ccw
To: hex-beam@yahoogroups.com
Sent: Thursday, March 21, 2002 12:09
Subject: [hex-beam] Re: HEX BEAM detailed Pix's?

--- In hex-beam@y..., "Peter D. Vouvounas" <wb3fsr@c...> wrote:
>
> When Stimpy and I assembled the 5 Band Hex Beam we took 80 digital
pix's of
> the components and assembly.
>
> Would it be helpful to upload them ????
>
> 73
>
> REN WB3FSR

Please do cause i'm trying to make a homebrew-model (multiband) The
hex-plate is finished and i have found spreaders that hopefully will
do the job.
Since i'm new : Hi to all!
Peter
ON4CCW

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[Non-text portions of this message have been removed]

542. Me again

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-21 18:19:35 UTC
From: Herbert Meiselman
Topic: 542 Message: 542

I am very impressed! First of all, Barry The Elder is skilled at using obscure English/Greek words! In his most recent email to us unwashed and illiterate bums, he used the word "paronomasia". Of course this word comes from the Greek "paronomazein", which means "to call with a slight change of name". Those of us with a HB antenna might use a simpler definition and employ the term "pun". Others who do not benefit from owning a HB might merely say "a piss-poor attempt at humor". So, take your pick!

Secondly, I wish to indicate my agreement with Brad and David regarding the use of the HB with a 180 degree rotation so as to place the base of the antenna further from the supporting structure. I fully understand the need for this rotation in VK Land, and also agree with Barry The Elder that it could result in a useful structure for roof/house protection. I have already carried out preliminary tests, and have determined that covering the inverted HB with 0.005" gold-plated mylar sheeting has a major effect on both roof protection and signal propagation.

In overview, I remain in awe of "The Elder". He knows many things and has many ideas that are unknown to mere humans. Perhaps a parallel universe? Magnetic flux tube system? Propagation off the side of his vertical?

73s,

Herb K6HJM

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Keck School of Medicine
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meiselma@...

543. adding bands to a hexbeam.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-23 22:32:24 UTC
From: pb1tt
Topic: 543 Message: 543

hello all,
after moving qth last year, I'm planning to put up a new antenna this Spring. I'm thinking about ordering the dual band hexbeam for 10 and 15 meters. Also, I would like to add wires for 12 and 6 meters to make it a 4-band beam. Any thoughts about this? Is it easy, or a hard job to add bands to an existing hexbeam ? would perhaps Traffie be willing to do this modification ?
73 from Holland, Peter PB1TT.

545. Re: adding bands to a hexbeam.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-24 02:46:11 UTC
From: w4wb
Topic: 543 Message: 545

Hi Peter,

Best ask Traffie this one direct. From what I understand, it is a non-trivial matter to get the added bands into it correctly. Originally, he had intended to include 6 m, but it didn't work out. Must have caused too must trouble. Trying to get 30 and 40 m to play together is not easy either.

GL es 73 de Barry - W4WB

--- In hex-beam@y..., "pb1tt" <peter@s...> wrote:
> hello all,
> after moving qth last year, I'm planning to put up a new antenna this
> Spring. I'm thinking about ordering the dual band hexbeam for 10 and
> 15 meters. Also, I would like to add wires for 12 and 6 meters to
> make it a 4-band beam. Any thoughts about this? Is it easy, or a hard
> job to add bands to an existing hexbeam ? would perhaps Traffie be
> willing to do this modification ?
> 73 from Holland, Peter PB1TT.

546. Hex Computer Modeling

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-24 05:01:23 UTC
From: Joe Caluda
Topic: 546 Message: 546

Please read the forward below.
I typed the address wrong the first time and so I forwarded it instead
of typing it again.
Look forward to the feedback.
Joe AA5HP

[Non-text portions of this message have been removed]

547. Hex Computer Modeling

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-24 05:22:45 UTC
From: Joe Caluda
Topic: 546 Message: 547

Okay here goes again.
It seems as though the original message got messed up.

I am looking for info on what happens to the SWR and feedpoint impedance of a dipole when you go from a standard conventional dipole, to a hex configuration and then to a double hex which looks like two "M's" side by side instead of a single "M" like a coventional hex element. I am not concerned with parasitic elements at the moment.
When you go from a standard dipole to a hex you compress the width or length of an antenna for 10 meters from 9 feet to approximately 6 feet on each side of the feedpoint.
When you go to a double hex and open up the angles a bit you compress the length to only 3.25 feet on a side. Each leg, of which there are now 8 instead of 4 is only 2.25 feet long and the entire length of the driven element is now 6.5 feet instead of 9.
But what will happen to the SWR of this driven element and what will happen to the feedpoint impedance when you change the shape to a double hex. The 8 legs will be a little closer together than the 4 in a conventional hex.
Does anyone out there in this group do computer modeling?
I look forward to the replies and any insight that can be provided.
Thanks
Joe

548. Re: [hex-beam] Re: adding bands to a hexbeam.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-24 06:28:44 UTC
From: David Douglass
Topic: 543 Message: 548

Hi Barry and All,

I wonder if the difficulties in getting a 40/30 Hex to work were related to the use of a single feed, or whether, the same problems were encountered with separate feed lines?? Along the same lines, I wonder if it would be possible to put 6m elements on the 5 bander, but feed it separately??

I'm in the process of taking down my HBH (Home-Brew-Hex) MKI here, as I have just about finalised the design of the MKII. The centre post and elements are completed, and all I have to do is modify the framework slightly to add a little strength to the design and also modify my Armstrong Rotational Device.

In less than 3-months I've worked 12 new DXCC countries on the Hex (263 > 275) and worked all continents on all 6 bands (30M included) - NO LINEAR. I think for those guys who are undecided as to whether to have a go a building there own, these figures pretty much speak for themselves.

On the down side, I must admit that I'm not happy with the performance on 15M and I'm still undecided whether 10M is OK either (not sure whether its the antenna or lack of propagation?). I don't think these are deficiencies of the antenna itself, but more my slap-dash feed system, and should be fixed up with the MKII.

A quick cost calculation puts all the parts for the MK1 and MKII are around $280AUS of about $145US.

Anyway, best wishes to all and hope you all now have Ducie in the bag.

David, VK2DPD - 28ºC Sunny and Blue Skies

----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Sunday, March 24, 2002 2:46 AM
Subject: [hex-beam] Re: adding bands to a hexbeam.

Hi Peter,

Best ask Traffie this one direct. From what I understand, it is a
non-trivial matter to get the added bands into it correctly.
Originally, he had intended to include 6 m, but it didn't work out.
Must have caused too must trouble. Trying to get 30 and 40 m to play
together is not easy either.

GL es 73 de Barry - W4WB

--- In hex-beam@y..., "pb1tt" <peter@s...> wrote:
> hello all,
> after moving qth last year, I'm planning to put up a new antenna

this
> Spring. I'm thinking about ordering the dual band hexbeam for 10
and
> 15 meters. Also, I would like to add wires for 12 and 6 meters to
> make it a 4-band beam. Any thoughts about this? Is it easy, or a
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> job to add bands to an existing hexbeam ? would perhaps Traffie be
> willing to do this modification ?
> 73 from Holland, Peter PB1TT.

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[Non-text portions of this message have been removed]

549. Re: adding bands to a hexbeam.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-24 16:31:21 UTC
From: w4wb
Topic: 543 Message: 549

Hi David,

As I understand it, it he was trying to do the 40 & 30 m duo with a single feed line. I rather think the 6 m added might well impact the tuning of the nearby elements adversely, even with a separate feed.

We all await your MKII efforts David.

I could hardly be happier with the HB's performance during the XR0X and VP6DI efforts. I have 3 bands and 2 modes for the VP6DI and 10 bands and modes for the XR0X. (All was 10-20 m.) Coupled with the Quadra, it is a pile buster. Also picked up other goodies such as 3B8, BV, and JY on first calls in the piles. (I rather give dumb luck strong marks and maybe that I recently sent Mr. Murphy on a vacation.

Like WX here, but a tad cooler!

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi Barry and All,
>
> I wonder if the difficulties in getting a 40/30 Hex to work were related to the use of a single feed, or whether, the same problems were encountered with separate feed lines?? Along the same lines, I wonder if it would be possible to put 6m elements on the 5 bander, but feed it separately??
>
> I'm in the process of taking down my HBH (Home-Brew-Hex) MKI here, as I have just about finalised the design of the MKII. The centre post and elements are completed, and all I have to do is modify the framework slightly to add a little strength to the design and also modify my Armstrong Rotational Device.
>
> In less than 3-months I've worked 12 new DXCC countries on the Hex (263 > 275) and worked all continents on all 6 bands (30M included) - NO LINEAR. I think for those guys who are undecided as to whether to have a go a building there own, these figures pretty much speak for themselves.
>
> On the down side, I must admit that I'm not happy with the performance on 15M and I'm still undecided whether 10M is OK either (not sure whether its the antenna or lack of propagation?). I don't think these are deficiencies of the antenna itself, but more my slap-dash feed system, and should be fixed up with the MKII.

>
> A quick cost calculation puts all the parts for the MK1 and MKII
are around $280AUS of about $145US.
>
> Anyway, best wishes to all and hope you all now have Ducie in the
bag.
>
> David, VK2DPD - 28ºC Sunny and Blue Skies

550. DXCC - HEX cake

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-25 04:03:46 UTC
From: k0fuz
Topic: 550 Message: 550

You are invited to have a piece of celebration cake - DXCC - HEX. Go to the lastest "photo" and help yourself. The proof is in the pudding (or cake). Having the HEX beam accelerated an otherwise slow moving process. Note the HEX beam on the cake.

Like any good cake this will not last long so dig in.

551. Re: DXCC - HEX cake

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-25 04:10:02 UTC
From: wb6roh
Topic: 550 Message: 551

Congratulations!

73
Doug - WB6ROH

--- In hex-beam@y..., "k0fuz" <johnc@c...> wrote:
> You are invited to have a piece of celebration cake - DXCC - HEX.
Go
> to the lastest "photo" and help yourself. The proof is in the
> pudding (or cake). Having the HEX beam accelerated an otherwise
slow
> moving process. Note the HEX beam on the cake.
>
> Like any good cake this will not last long so dig in.

552. Re: [hex-beam] DXCC - HEX cake

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-25 13:21:42 UTC
From: Buzz & Quinta
Topic: 550 Message: 552

Congratulations-super job!

Buzz
N5FTR
----- Original Message -----
From: k0fuz
To: hex-beam@yahoogroups.com
Sent: Sunday, March 24, 2002 8:03 PM
Subject: [hex-beam] DXCC - HEX cake

You are invited to have a piece of celebration cake - DXCC - HEX. Go to the lastest "photo" and help yourself. The proof is in the pudding (or cake). Having the HEX beam accelerated an otherwise slow moving process. Note the HEX beam on the cake.

Like any good cake this will not last long so dig in.

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[Non-text portions of this message have been removed]

553. Re: DXCC - HEX cake

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-25 04:43:26 UTC
From: w4wb
Topic: 550 Message: 553

Congratulations John! Hexcellent job. So what do you get at 150 and
200? :-)

73 de Barry - W4WB

--- In hex-beam@y..., "k0fuz" <johnc@c...> wrote:
> You are invited to have a piece of celebration cake - DXCC - HEX.
Go
> to the lastest "photo" and help yourself. The proof is in the
> pudding (or cake). Having the HEX beam accelerated an otherwise
slow
> moving process. Note the HEX beam on the cake.
>
> Like any good cake this will not last long so dig in.

554. Photo's - DIY HEX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-26 08:05:17 UTC
From: David Douglass
Topic: 554 Message: 554

Hi all,

For those interested I've uploaded a few photo's to the Photo section of the Yahoo site (in the VK2DPD folder). These show the centre post and Hub for the MKII version of the Homebrew Hex, as well as the washer tuning system I use for the elements.

The centre post has 5 individual feedlines and SO-239 sockets - 1 for each band. These run up the inside of the post and each line has a ferrite bead choke in place. The attachment points for the elements, are square pieces of plastic (a salvage chopping board - don't tell the missus), that can slide up and down the post for adjustment and to ensure the elements are truly horizontal.

The Hub arrangement is an improvement of the original, in that it consists of the 2 ends of a coax drum (bolted together), with short lengths of tubing to allow slotting of the spreader arms. This will allow a little shortening of the actual wooden spreaders leading to a stronger set-up.

The washer system is simply a washer soldered to each element arm about 18 inches from the end. To this will be attached the rope that holds the arms in place at the element tips. The 18inch overhang can then be taped to the rope and pruned for tuning, without having to totally re-string the whole arrangement. Simple but effective - hopefully.

The next job is strengthening of the spreaders arms and a good coat of black paint (as per the recommendations of Barry).

I'll post more pics as the assembly continues

Regards & G'day

David

PS. Barry, my last QSO before taking the MKII Hex down was VP6DI on RTTY. I think with 3 modes I might even of out-done you on this one mate??
vk2dpd@...
vk2dpd@...

555. Re: Photo's - DIY HEX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-26 12:50:01 UTC
From: on4ccw
Topic: 554 Message: 555

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi all,
>
> For those interested I've uploaded a few photo's to the Photo section of the
> Yahoo site (in the VK2DPD folder). These show the centre post and Hub for
> the MKII version of the Homebrew Hex, as well as the washer tuning system I
> use for the elements.
>
> The centre post has 5 individual feedlines and SO-239 sockets - 1 for each
> band. These run up the inside of the post and each line has a ferrite bead
> choke in place. The attachment points for the elements, are square pieces of
> plastic (a salvage chopping board - don't tell the missus), that can slide
> up and down the post for adjustment and to ensure the elements are truly
> horizontal.
>
> The Hub arrangement is an improvement of the original, in that it consists
> of the 2 ends of a coax drum (bolted together), with short lengths of tubing
> to allow slotting of the spreader arms. This will allow a little shortening
> of the actual wooden spreaders leading to a stronger set-up.
>
> The washer system is simply a washer soldered to each element arm about 18
> inches from the end. To this will be attached the rope that holds the arms
> in place at the element tips. The 18inch overhang can then be taped to the
> rope and pruned for tuning, without having to totally re-string the whole
> arrangement. Simple but effective - hopefully.
>
> The next job is strengthening of the spreaders arms and a good coat of black
> paint (as per the recommendations of Barry).
>

> I'll post more pics as the assembly continues
>
> Regards & G'day
>
> David
>
> PS. Barry, my last QSO before taking the MKII Hex down was VP6DI on
RTTY. I
> think with 3 modes I might even of out-done you on this one mate??
> vk2dpd@q...
> vk2dpd@b...
Hello David, it looks really OK ; I'm building one myself for the
moment, and i'll take some foto's as soon as i can.
There' is one thing that i fear of your design : the spacing between
the radiator and reflector to the centre -post is bigger. I don't
know if it's so important, but it might be.
Really clever to work with adjustable plastic attachementpoints!
I wish my boss gave me a week holiday so i could work on my hex....
I'll get there (in a few months...HI..)
good luck!!
Peter

556. Re: Photo's - DIY HEX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-26 13:13:40 UTC
From: w4wb
Topic: 554 Message: 556

David,

Looks like the MKII is coming along nicely. We are all interested in your progress.

Never heard the VP6DI on RTTY. They did very little RTTY so you really snagged a rare mode from a rare (semi-rare now?) one. Congratulations.

I got the XR0X on all 5 bands and 3 modes (10-11 different band-modes). They were a lot easier to contact than the VP6DI. Also, both the CW and SSB sites at ST. Felix were fantastic. They gave a summary on the Daily DX in a message. Perhaps it will be added to the XR0X web site if not there by now.

April looks to offers some more opportunities to HEX some great DX! GL to all.

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi all,
<SNIP>
> Regards & G'day
>
> David
>
> PS. Barry, my last QSO before taking the MKII Hex down was VP6DI on RTTY. I think with 3 modes I might even of out-done you on this one mate??
> vk2dpd@q...

557. VP6DI on RTTY

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-26 13:51:26 UTC
From: Makoto Tanaka
Topic: 557 Message: 557

Uncle Barry,

VP6DI was very agressive on 20m RTTY last night (Japan time) and luckily it
was not a big pile up so I got it. Hope
it was a real one.

I got VP6DI on all 5 bands (7 different band-modes) and
XR0X on 20, 15 and 17 (also 7 different band-modes incl.
PSK31 and RTTY).

Good Hexing!!
****
Makoto Tanaka "Shin"
JR1NHD
ex. 9V1ZW, AA2DI
<jr1nhd@...>
<jr1nhd@...>
****

[Non-text portions of this message have been removed]

558. Re: VP6DI on RTTY

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-26 15:46:02 UTC
From: w4wb
Topic: 557 Message: 558

Good going Shin! I didn't even bother to listen since the following was posted by the Daily DX.

"They will be packing beginning at daybreak 26 March Ducie time, but will be working 15, 20 meter and 75 meter Phone and 40 meter CW throughout the night 40 will be the only CW band for the balance of the operation. There will be no more RTTY or 160 meter operations this trip."

This could explain why there was no significant pile. Hope it wasn't a pirate!

73 de Barry - W4WB

--- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
> Uncle Barry,
>
> VP6DI was very agressive on 20m RTTY last night (Japan time) and luckily it was not a big pile up so I got it. Hope it was a real one.
>
> I got VP6DI on all 5 bands (7 different band-modes) and
> XR0X on 20, 15 and 17 (also 7 different band-modes incl.
> PSK31 and RTTY).
>
> Good Hexing!!
> **********
> Makoto Tanaka "Shin"
> JR1NHD

559. Unclear!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-26 17:46:05 UTC
From: Herbert Meiselman
Topic: 559 Message: 559

As always, us folks on the west coast are the last to know! Thus, please forgive my question:

Is it "Uncle Barry" or "Barry The Elder"?

I do not wish to make a mistake in addressing this distinguished individual.

73s,

Herb K6HJM

PS: I'm sort of glad that the VP and XR winding up operations. Maybe now it will be possible to spot and work other DX...our local packet cluster has shown only these two for the past several (?) days.

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

560. Re: [hex-beam] Unclear!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-26 17:45:32 UTC
From: ADS - Bill Gerth
Topic: 559 Message: 560

In fact it is neither. It is "Barry the Wise." As you may know, his callsign is W4WB (Wise Barry) :-)

73,

Bill
W4RK
Nashville, TN
USA

----- Original Message -----
From: Herbert Meiselman
To: hex-beam@yahoogroups.com
Sent: Tuesday, March 26, 2002 11:46 AM
Subject: [hex-beam] Unclear!

As always, us folks on the west coast are the last to know! Thus, please forgive my question:

Is it "Uncle Barry" or "Barry The Elder"?

I do not wish to make a mistake in addressing this distinguished individual.

73s,

Herb K6HJM

PS: I'm sort of glad that the VP and XR winding up operations. Maybe now it will be possible to spot and work other DX...our local packet cluster has shown only these two for the past several (?) days.

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meiselma@...

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561. sn 199

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-26 17:55:05 UTC
From: wterry3
Topic: 561 Message: 561

Hi All
5i #199 is now up and working. I had a great time assembling; no problem for one person. Another set of hands would have been helpful for connecting the last couple of wires to the insulator but not a big problem. I am impressed with the ease of assembly and also with the strength of the assembled beam. I was expecting something moderately fragile but I think you could drop it off the roof and it would bounce.
I also got one of their pushup masts which I atached to my chimmey and
here is where I need some more muscle power to push it up the remainder of the way. Currently it is up about 15 feet above the roof which is about 20 feet high so the hex is about 35 feet above the
ground. I am using the Channel Master rotor which works great.
I don't have any experience with rotatable antennas but so far have been impressed with the transmitting ability, of course, but more with
the improvment on receive over a Carolina Windom especially with the decrease in QRM due to the side nulls. It does seem to be more noisy however.
I am used to QRP with portable antennas recently and so I am enjoying having almost all of my calls returned on the first try. (5 watts)
I listened to the hexbeam freq on ten meters Sat but I guess everyone else was otherwise engaged chasing DX.
73,72 and Good hexing Bill K4BYR

562. Re: [hex-beam] Re: Photo's - DIY HEX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-26 21:03:33 UTC
From: David Douglass
Topic: 554 Message: 562

Hi Peter,

The actual space between the elements at the feed point is between 5 and 6cm, so not so big. Hopefully this will not effect it too much.

Good luck with your experiment, and maybe you should wait for good weather in the summer hihi.

David, VK2DPD
----- Original Message -----
From: on4ccw
To: hex-beam@yahoogroups.com
Sent: Tuesday, March 26, 2002 12:50 PM
Subject: [hex-beam] Re: Photo's - DIY HEX

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi all,
>
> For those interested I've uploaded a few photo's to the Photo section of the
> Yahoo site (in the VK2DPD folder). These show the centre post and Hub for
> the MKII version of the Homebrew Hex, as well as the washer tuning system I
> use for the elements.
>
> The centre post has 5 individual feedlines and SO-239 sockets - 1 for each
> band. These run up the inside of the post and each line has a ferrite bead
> choke in place. The attachment points for the elements, are square pieces of
> plastic (a salvage chopping board - don't tell the missus), that can slide
> up and down the post for adjustment and to ensure the elements are truly
> horizontal.
>
> The Hub arrangement is an improvement of the original, in that it consists
> of the 2 ends of a coax drum (bolted together), with short lengths of tubing
> to allow slotting of the spreader arms. This will allow a little shortening
> of the actual wooden spreaders leading to a stronger set-up.
>

> The washer system is simply a washer soldered to each element arm
about 18
> inches from the end. To this will be attached the rope that holds
the arms
> in place at the element tips. The 18inch overhang can then be taped
to the
> rope and pruned for tuning, without having to totally re-string the
whole
> arrangement. Simple but effective - hopefully.
>
> The next job is strengthening of the spreaders arms and a good coat
of black
> paint (as per the recommendations of Barry).
>
> I'll post more pics as the assembly continues
>
> Regards & G'day
>
> David
>
> PS. Barry, my last QSO before taking the MKII Hex down was VP6DI on
RTTY. I
> think with 3 modes I might even of out-done you on this one mate??
> vk2dpd@q...
> vk2dpd@b...
Hello David, it looks really OK ; I'm building one myself for the
moment, and i'll take some foto's as soon as i can.
There' is one thing that i fear of your design : the spacing between
the radiator and reflector to the centre -post is bigger. I don't
know if it's so important, but it might be.
Really clever to work with adjustable plastic attachementpoints!
I wish my boss gave me a week holiday so i could work on my hex....
I'll get there (in a few months...HI..)
good luck!!
Peter

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563. Opinions please: Hexbeam vs. Fluidmotion SteppIR?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-27 18:08:36 UTC
From: khopper
Topic: 563 Message: 563

Does anyone have an opinion about the new Fluidmotion SteppIR 3el Yagi
with automagically adjustable elements? Any thoughts about how it
compares to the HX-5Bi?

http://www.fluidmotion.ws
Tnx,
de ken n9vv (prospective Hexbeam owner)

564. Re: Opinions please: Hexbeam vs. Fluidmotion SteppIR?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-27 20:00:56 UTC
From: bbadger
Topic: 563 Message: 564

--- In hex-beam@y..., "khopper" <khopper@u...> wrote:
> Any thoughts about how it compares to the HX-5Bi?
>

1) It's obviously much cooler than the Hexbeam, in terms of technology.
2) With moving parts, it will not be as rugged (only rated to -20F?
That's springtime in the Rockies.)
3) With moving parts, band changes are not going to be very quick.
4) It's full size.

If 2, 3 and 4 don't bother you.... 1 is very compelling. For myself,
and my QTH, ruggedness and reduced size were paramount.
--
Brian N0KZ

565. Homebrew Pictures

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-25 23:45:04 UTC
From: vk2dpd
Topic: 550 Message: 565

Hi All,

For those interested, I've uploaded some photos of the parts for my Homebrew Hex MKII. There are 2 pictures of the centre post, 2 pictures of the Hub type arrangement and 1 picture of the washer system I use for element tuning.

The centre post has 5 seperate coax cables running up the centre (each with a ferrite bead RF Choke. There are 5 seperate SO-129 connectors on the bottom of the post for easy feeding. The connecting points on the post can be adjusted up and down, to ensure the elements are level (these pictures are pre-painting!!)

The Hub is made of 2 ends from a coax drum (as opposed to one on the MKI version), with 6 lengths of aluminium tuce for slotting of the spreaders. This gives a very strong arrangement.

For elemet tuning I have inserted a brass washer into each element approx 45cm from the element ends. This is used to tie to the rope that forms the tip s[aces. The 45cm at the end can then be pruned for best SWR, without having to re-string the whole antenna.

More pic's will follow as construction progresses

David, VK2DPD

567. Center Mast Info needed

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-30 02:18:55 UTC
From: genesisjoe2001
Topic: 567 Message: 567

I am almost finished homebrewing my 5-Band Hex.
I would like to know what the spacing is between feedpoints on the center mast of the Traffie 5-Band Hex if someone knows.
I estimate the distance between the 20 and 17 meter feedpoints to be about 11 inches and between the 17 and 15 to be about 7 or 8 inches.
Do any of the hex users have the exact (or close to exact) measurements of these distances for the 5 bands?
This is the last step in my project so any and all replies are very appreciated.
Thanks de Joe AA5HP

568. Re: Thoughts on Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-31 21:00:24 UTC
From: tomac14
Topic: 510 Message: 568

Hi To All;

I'd also like to get together with all the other Hexbeamers in Dayton.

Friday or Saturday lunch or dinner is OK with me. Thursday is travel day and I won't be in by lunch time.

I talked to Mike Traffie last week on 15 meters and he asked me to give him signal reports for hexbeams he had on two different towers. One tower was at 30 feet and the other was at 80 feet. The 80 foot tower report was S9, the 30 foot tower report was S9+15to20db. I was really surprised the lower tower had the higher report. See,"Bigger isn't always Better!!!"

By the way, I'm up to 214 countries worked and my DXCC certificate is on the way to me. I'd say the old hexbeam seems to work!!!

See you all in Dayton.

Tom, N0YD, "Yankee Doodle"

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Friday is better since Thursday is arrival day and setup for those
of
> us having display booths (W4RT Electronics). I think a lunch time
> meeting might be fine.
>
> 73 de Barry - W4WB
>
> --- In hex-beam@y..., "John Caulfield" <johnc@c...> wrote:
> > I vote for Thursday or Friday . Can't stay over Saturday night.
> > KØFUZ
> > John Caulfield

569. Re: [hex-beam] Re: Thoughts on Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-03-31 23:06:39 UTC
From: Brad Sumner
Topic: 510 Message: 569

Let's do it Friday lunch time. This seems to fit everyone's travel plans and doesn't conflice with any other evening activities or meetings.

Brad K0TRL

570. Re: Thoughts on Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 00:06:18 UTC
From: w4wb
Topic: 510 Message: 570

--- In hex-beam@y..., Brad Sumner <bsumner@s...> wrote:
> Let's do it Friday lunch time. This seems to fit everyone's travel
> plans and doesn't conflice with any other evening activities or
> meetings.
>
> Brad K0TRL

I agree Brad. Suggest that we do it at 1100 or 1300 local to beat the crowds in the food courts. We need to get a list of those planning to attend. Brad, would you be the focal point for this?

73 de Barry - W4WB

571. A "Rotten Old HAM" with a new Call Sign

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 00:09:58 UTC
From: w4wb
Topic: 571 Message: 571

Congratulations to Doug WB6ROH (Rotten Old Ham)on being granted his new call sign ---

W 6 H B

I am still trying to figure out how to remember his new call sign. ;-)

73 de Barry - W4WB

572. Re: [hex-beam] Re: Thoughts on Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 00:15:02 UTC
From: Brad Sumner
Topic: 510 Message: 572

Sure I'd be happy to. Time doesn't matter to me but seems 1100 might give us a better chance of getting some of the tables if it fits with you "booth duty" guys.

Hexbeamers--send me an e-mail here or at bsumner@... if you can be there at 1100 Friday. If you would really prefer 1300 or later please note and we'll consider it.

Hope to meet a lot of you and bring pictures

Brad K0TRL

573. Re: [hex-beam] A "Rotten Old HAM" with a new Call Sign

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 00:15:57 UTC
From: Brad Sumner
Topic: 571 Message: 573

How 'Bout Ham Buddy

574. Re: [hex-beam] Re: Thoughts on Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 00:34:44 UTC
From: Robert Gerard
Topic: 510 Message: 574

I expect to be coming in that AM, so I would have a preference for 1300+.
But if it's 1100, I'll be sure to arrive by then and be there. 73, Bob, K2WY
----- Original Message -----
From: "Brad Sumner" <bsumner@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, March 31, 2002 19:15
Subject: Re: [hex-beam] Re: Thoughts on Dayton Get Together?

> Sure I'd be happy to. Time doesn't matter to me but seems 1100 might
> give us a better chance of getting some of the tables if it fits with
> you "booth duty" guys.
>
> Hexbeamers--send me an e-mail here or at bsumner@... if you
> can be there at 1100 Friday. If you would really prefer 1300 or later
> please note and we'll consider it.
>
> Hope to meet a lot of you and bring pictures
>
> Brad K0TRL
>
>
>
>
> To unsubscribe from this group, send an email to:
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>
>

575. The Best Hex-Beam Testimonial Yet???

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 01:25:44 UTC
From: Robert Gerard
Topic: 575 Message: 575

With the CQ SSB WPX Contest falling on Easter weekend, the look in my XYL's eyes made clear that "serious" participation (that is, serious by the standards of someone whose last contest "win" was a section award in the 1957 Phone SS) was out of the question. Friday afternoon, I was fooling with an FT-817 I just bought, and a 4X4 said I was a "real" 59plus over there and asked about my antenna. I figured what the hell and showed up on 15 meters at 0000GMT on Friday with the HX-5B and all of 5 watts SSB. Frankly, I was sure I wouldn't have a chance of getting through the massive pile-ups all weekend.

THE RESULT: by the end of the weekend, in 14 hours of "official" airtime (thus, actually much less), on 15 meters only, I logged 223 prefixes, 170,000 points and...73 DXCC entities!!!!!

I may never go back to the Mark V and Quadra (just kidding). And Barry, make sure you're well stocked with 817 goodies in Dayton.

Sorry for sounding boastful, but the credit goes to the antenna, not the op.

73 de Bob, K2WY

[Non-text portions of this message have been removed]

576. Re: Thoughts on Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 01:28:52 UTC
From: tomac14
Topic: 510 Message: 576

Hi:

Friday @1100 is OK with me.
Where do you want to meet?

Tom, N0YD "Yankee Doodle"

--- In hex-beam@y..., Brad Sumner <bsumner@s...> wrote:
> Sure I'd be happy to. Time doesn't matter to me but seems 1100
might
> give us a better chance of getting some of the tables if it fits
with
> you "booth duty" guys.
>
> Hexbeamers--send me an e-mail here or at bsumner@s... if you
> can be there at 1100 Friday. If you would really prefer 1300 or
later
> please note and we'll consider it.
>
> Hope to meet a lot of you and bring pictures
>
> Brad K0TRL

577. Re: The Best Hex-Beam Testimonial Yet???

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 05:24:13 UTC
From: w4wb
Topic: 575 Message: 577

Great job Bob. We had thunderstorms here all weekend so I was QRT. :-
(

Congratulations on becoming a proud HAM parent of that little 817!
They quickly become a family member. ;-) I worked several folks
last week on 17 m with the Hex-Beam and my 817 (SSB filter plus the
new speech compressor). Everyone was rather surprised that I was
running 5 W with such a good signal.

I can tell you from personal experience that the MP and Quadra get
very jealous about the appearance of the "little guy." I try to
spend time with them all each week. hi hi

I'll look forward to seeing you at Dayton at the W4RT Electronics
booth. It will be across the aisle from Heil Sound.

73 de Barry - W4WB

--- In hex-beam@y..., "Robert Gerard" <rag@g...> wrote:
> With the CQ SSB WPX Contest falling on Easter weekend, the look in
my XYL's eyes made clear that "serious" participation (that is,
serious by the standards of someone whose last contest "win" was a
section award in the 1957 Phone SS) was out of the question. Friday
afternoon, I was fooling with an FT-817 I just bought, and a 4X4 said
I was a "real" 59plus over there and asked about my antenna. I
figured what the hell and showed up on 15 meters at 0000GMT on Friday
with the HX-5B and all of 5 watts SSB. Frankly, I was sure I wouldn't
have a chance of getting through the massive pile-ups all weekend.
>
> THE RESULT: by the end of the weekend, in 14 hours of "official"
airtime (thus, actually much less), on 15 meters only, I logged 223
prefixes, 170,000 points and...73 DXCC entities!!!!!
>
> I may never go back to the Mark V and Quadra (just kidding). And
Barry, make sure you're well stocked with 817 goodies in Dayton.
>
> Sorry for sounding boastful, but the credit goes to the antenna,
not the op.
>
> 73 de Bob, K2WY
>

578. Homebrew MKII

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 07:55:04 UTC
From: David Douglass
Topic: 578 Message: 578

Hi All,

For those following the progress, I assembled the MKII Homebrew Hex and have it on the roof, un-turned at about 17foot.

I'm still to solder on PL-259's for 12 and 10M, but 20M and 17M have a SWR of about 1.4:1 (all be it about 800KHz below the band edge). For some reason I'm unable to tune 15M, although there may be a wiring fault, which I need to check out before I start pruning the elements.

All went to plan, but I've obviously cut the elements way too long (maybe because I used insulated wire instead of the 14SWG flex-weave). This is something to bear in mind when making one.

It's way too soon to say how it performs, but the MKII is mechanically much sounder than the previous model and initially seems to be going OK.

I've took some more photo's but not on the digital, so will take a while to develop and scan onto the site.

A belated happy Easter to all

David, VK2DPD
vk2dpd@...
vk2dpd@...

579. Homebrew MKII - Update

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 09:19:32 UTC
From: David Douglass
Topic: 579 Message: 579

just to add to my last,

15M is OK and I had a fault on the plug. SWR on 15/12/10 is about 2.5:1 at resonance, but that is with the antenna sitting on the roof for tuning, hopefully this will improve when hoisted up to 33foot.

CU David, ...- -.- ..--- -.. .--. -..
----- Original Message -----
From: "David Douglass" <vk2dpd@...>
To: "HEX-BEAM" <hex-beam@yahoogroups.com>
Sent: Monday, April 01, 2002 7:55 AM
Subject: [hex-beam] Homebrew MKII

> Hi All,
>
> For those following the progress, I assembled the MKII Homebrew Hex and have
> it on the roof, un-turned at about 17foot.
>
> I'm still to solder on PL-259's for 12 and 10M, but 20M and 17M have a SWR
> of about 1.4:1 (all be it about 800KHz below the band edge). For some reason
> I'm unable to tune 15M, although there may be a wiring fault, which I need
> to check out before I start pruning the elements.
>
> All went to plan, but I've obviously cut the elements way too long (maybe
> because I used insulated wire instead of the 14SWG flex-weave). This is
> something to bear in mind when making one.
>
> It's way too soon to say how it performs, but the MKII is mechanically much
> sounder than the previous model and initially seems to be going OK.
>
> I've took some more photo's but not on the digital, so will take a while to
> develop and scan onto the site.
>
> A belated happy Easter to all
>
> David, VK2DPD
> vk2dpd@...
> vk2dpd@...
>
>
>
>

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>

580. Re: The Best Hex-Beam Testimonial Yet???

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 17:04:24 UTC
From: bbadger
Topic: 575 Message: 580

--- In hex-beam@y..., "Robert Gerard" <rag@g...> wrote:

> THE RESULT: by the end of the weekend, in 14 hours of "official" airtime (thus, actually much less), on 15 meters only, I logged 223 prefixes, 170,000 points and...73 DXCC entities!!!!!
>

As I had to spend about 23 hours of the contest at church, I only got in about 14 hours as well. Knowing that I couldn't be competitive for score with that amount of time, I went for DXCC entities only, S&P.

Antenna: HX-5bi #203 on 10, 15, and 20.
Rig: TS-2000 running 100 watts (N1MM automation -- nice program!)
Results: 88 DXCC entities.

(Side note: did you know that you can work Colorado to Venezuela at midnight on 75 meters using only 100 watts into a G5RV at 30 feet?)
--
Brian N0KZ

581. Hexbeam Tower Height test results

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 17:15:29 UTC
From: tomac14
Topic: 510 Message: 581

Hi to all:

Here are the results of a little test on the best tower height for the hexbeam.

I talked to Mike Traffie last week on 15 meters and he asked me to give him signal reports for hexbeams he had on two different towers. One tower was at 80 feet and the other was at 30 feet. The 80 foot tower report was S9, the 30 foot tower report was S9+15to20db. I was really surprised that the lower tower had the higher report.

See,"Bigger isn't always Better!!!"

Tom, N0YD "Yankee Doodle"

582. Re: Hexbeam Tower Height test results

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 19:57:47 UTC
From: bbadger
Topic: 510 Message: 582

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:

> I talked to Mike Traffie last week on 15 meters and he asked me to
> give him signal reports for hexbeams he had on two different towers.
> One tower was at 80 feet and the other was at 30 feet. The 80 foot
> tower report was S9, the 30 foot tower report was S9+15to20db. I was
> really surprised that the lower tower had the higher report.

Look at the math:

St. Louis, MO: 38.63N/90.24W
Ashby, MA: 42.67N/71.82W
Distance = 1005 miles

A 15 meter horizontal antenna at 1.7 wavelengths up will have gain lobes at 8, 26 and 47 degree takeoff angles, and nulls at 17 and 36 degree takeoff angles. At 0.65 wavelengths up, it will have a single gain lobe at 22 degrees. A=asin(N/4h)

For a 1005 mile F layer path, first F layer hop will be at a takeoff angle of 13 to 20 degrees, and second F layer hop will be at a takeoff angle of 30 to 40 degrees.

As you can see, the higher antenna has a null at BOTH hop angles, whereas the lower antenna has a gain lobe at the first hop angle. This was true for the exact distance and heights seen in the experiment -- if the distance had been 250 miles closer or farther away, and the results would have been reversed.

Furthermore, raising the low antenna to between 35 and 47 feet would have beat them both, as this would be the ideal height for 1000 mile, 15 meter, 1 hop, F layer paths.
--
Brian N0KZ

583. Re: Hexbeam Tower Height test results

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 20:26:05 UTC
From: tomac14
Topic: 510 Message: 583

Hi Brian:

Thanks for doing the math.

I think I need to get a motorized tower for my Hexbeam!!!

Tom, N0YD "Yankee Doodle"

--- In hex-beam@y..., "bbadger" <bbadger@y...> wrote:
> --- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
>
> > I talked to Mike Traffie last week on 15 meters and he asked me to
> > give him signal reports for hexbeams he had on two different
towers.
> > One tower was at 80 feet and the other was at 30 feet. The 80 foot
> > tower report was S9, the 30 foot tower report was S9+15to20db. I
was
> > really surprised that the lower tower had the higher report.
>
> Look at the math:
>
> St. Louis, MO: 38.63N/90.24W
> Ashby, MA: 42.67N/71.82W
> Distance = 1005 miles
>
> A 15 meter horizontal antenna at 1.7 wavelengths up will have gain
> lobes at 8, 26 and 47 degree takeoff angles, and nulls at 17 and 36
> degree takeoff angles. At 0.65 wavelengths up, it will have a
single
> gain lobe at 22 degrees. A=asin(N/4h)
>
> For a 1005 mile F layer path, first F layer hop will be at a takeoff
> angle of 13 to 20 degrees, and second F layer hop will be at a
takeoff
> angle of 30 to 40 degrees.
>
> As you can see, the higher antenna has a null at BOTH hop angles,
> whereas the lower antenna has a gain lobe at the first hop angle.
> This was true for the exact distance and heights seen in the
> experiment -- if the distance had been 250 miles closer or farther
> away, and the results would have been reversed.
>
> Furthermore, raising the low antenna to between 35 and 47 feet would
> have beat them both, as this would be the ideal height for 1000
mile,
> 15 meter, 1 hop, F layer paths.

> --
> Brian N0KZ

584. Agree with Tom

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 21:12:34 UTC
From: Herbert Meiselman
Topic: 584 Message: 584

Hello to all:

I fully agree with Tom (N0YD)..."bigger isn't always better". My HB is about 30 feet above ground, with its base only about 6 feet above the roof. Still, it do work well...lots of fun over the weekend getting DX contacts for my second DXCC (or whatever happens at 200...I now have 153 confirmed).

I don't care what the radio ads in LA say about improving one's sex life..."Size doesn't matter"

SO...be nice to all of us who are "vertically challenged".

73s,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

585. Re: Hexbeam Tower Height test results

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 22:33:25 UTC
From: bbadger
Topic: 510 Message: 585

Yup! Given the realities of antennas and propagation, I think a motorized tower is probably as valuable as a rotator -- although much more expensive ;-)

I'm personally thinking about an MA-550MDP...

--
Brian N0KZ

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> I think I need to get a motorized tower for my Hexbeam!!!

586. Re: [hex-beam] Hexbeam Tower Height test results

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-01 22:50:20 UTC
From: Robert Gerard
Topic: 510 Message: 586

As perhaps the least technically knowledgeable member of this Board (so I don't guarantee I'll understand the answer), I wonder if anyone has any thoughts on why this is so. BTW, mine is strapped to a chimney, 36 feet above ground and 5 feet above the peaked roof.

----- Original Message -----
From: "tomac14" <tomac14@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, April 01, 2002 12:15
Subject: [hex-beam] Hexbeam Tower Height test results

> Hi to all:
>
> Here are the results of a little test on the best tower height for
> the hexbeam.
>
> I talked to Mike Traffie last week on 15 meters and he asked me to
> give him signal reports for hexbeams he had on two different towers.
> One tower was at 80 feet and the other was at 30 feet. The 80 foot
> tower report was S9, the 30 foot tower report was S9+15to20db. I was
> really surprised that the lower tower had the higher report.
>
> See,"Bigger isn't always Better!!!"
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587. Re: Hexbeam Tower Height test results

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-02 02:01:53 UTC
From: w4wb
Topic: 510 Message: 587

That is exactly my plan Tom. I will be refurbing an old 50' EZWAY tilt-over, crank-up tower this summer. While I have the welding stuff out to touch up anything necessary on this 42 year-old jewel, I plan to add a mount for the motor. Brian is right on. Remember that on 10 m, a Hex-Beam at 38' is already dual lobing.

73 de Barry - W4WB

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> Hi Brian:
>
> Thanks for doing the math.
>
> I think I need to get a motorized tower for my Hexbeam!!!
>
> Tom, N0YD "Yankee Doodle"
>

588. VOTE in the POLL Please

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-02 05:20:33 UTC
From: w4wb
Topic: 588 Message: 588

If you have not voted in the poll, please do. You have to get to it by going to the group's Yahoo! web site. FWIW, your vote is secret from everyone including me.

Tnx es 73,
Barry - W4WB
HEX-BEAM Group Moderator

589. Homebrew Hex SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-02 11:28:20 UTC
From: David Douglass
Topic: 589 Message: 589

Again, for those adventurous amongst you!!

I have carried out an initial pruning of elements and have the antenna at about 15foot (4 foot above the metal shack roof).

Initial SWR readings are

20M - 14.00mHz SWR = 2.3
18M - 17.89mHz SWR = 1.8
15M - 20.88mHz SWR = 2.8
12M - 24.84mHz SWR = 2.2
10M - 27.88mHz SWR = 2.7

These may not seem that good to you guys with commercial antennas, but I think they must be the best set of SWR readings I've ever achieved in any of my homebrew arrays.

SWR bandwidth seems pretty good, and I intend to raise the antenna to full height before doing any more chopping.

More to follow - Regards

David
vk2dpd@...
vk2dpd@...

590. tower/mast wind loading and guys

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-02 19:23:40 UTC
From: n6tz
Topic: 590 Message: 590

While it might be advantages to have a small wind load like the Hex offers, consideration to wind loading is still important.
The basic formula for wind load is Pounds per Square Foot is equal to the Velocity of Wind in MPH Squared divided by 250. Or in simple form LBS = VxV / 250.
Now most of us consider the Traffie Hex to be about 2 sq. ft. and then the Channel Master rotator another square foot, so let's look at figures.

At 10 mph wind we will have about 1.2 lbs of side force.
At 20 mph wind we will have about 4.8 lbs of side force.
At 40 mph wind we will have about 19.2 lbs of side force.
And at 60 mph wind we will have about 44 lbs of side force.

Considering our guys will be at best at 45 degree angles, but often less than that, your guys for a 60 mph wind will have to deliver at least, and probably more than 62 lbs of stability. This is not to mention higher amounts due to oscillation of the weight. A general rule is you need at least 100 plus capability for the Hex. So think about this when you guy with dacron cord or other light material. There is no substitute for steel cable with eyelets, quality egg insulators, and proper clamps.

Hal Williams N6TZ

591. RE: [hex-beam] tower/mast wind loading and guys

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-02 19:59:08 UTC
From: Peter D. Vouvounas
Topic: 590 Message: 591

Let us not forget the wonderful Kevlar guy-wire -

Very strong
Very light-weight
No egg insulators
No RF issues

73,

PeterV [REN] WB3FSR

-----Original Message-----
From: n6tz [mailto:halw@...]
Sent: Tuesday, April 02, 2002 14:24
To: hex-beam@yahoogroups.com
Subject: [hex-beam] tower/mast wind loading and guys

While it might be advantages to have a small wind load like the Hex offers, consideration to wind loading is still important.
The basic formula for wind load is Pounds per Square Foot is equal to the Velocity of Wind in MPH Squared divided by 250. Or in simple form LBS = VxV / 250.
Now most of us consider the Traffie Hex to be about 2 sq. ft. and then the Channel Master rotator another square foot, so let's look at figures.

At 10 mph wind we will have about 1.2 lbs of side force.
At 20 mph wind we will have about 4.8 lbs of side force.
At 40 mph wind we will have about 19.2 lbs of side force.
And at 60 mph wind we will have about 44 lbs of side force.

Considering our guys will be at best at 45 degree angles, but often less than that, your guys for a 60 mph wind will have to deliver at least, and probably more than 62 lbs of stability. This is not to mention higher amounts due to oscillation of the weight. A general rule is you need at least 100 plus capability for the Hex. So think about this when you guy with dacron cord or other light material.
There is no substitute for steel cable with eyelets, quality egg insulators, and proper clamps.

Hal Williams N6TZ

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592. In addition to guy info.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-02 23:29:04 UTC
From: n6tz
Topic: 592 Message: 592

In addition to my previous posting on wind load.
Remember, when rating a guy cable/rope/etc., always calculate the worse case situation, then look for rating of material at least two to four hundred times capability.
For instance, if we calculated 100 lb need, then we would use material of 200 to 400 lb strength.
On the use of fabric materials, think twice if you have trees nearby with squirrels. They love to chew on those materials and take them for nesting material.

Hal N6TZ

593. SWR MKII homebrew

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-03 02:28:11 UTC
From: David Douglass
Topic: 593 Message: 593

Apologies as you are all probably getting a little bored with all this ''Homebrew Stuff''.

I have just uploaded a graph of SWR plots for the MKII Homebrew Hex now raised to full height, and tuned (as best as I can be bothered at the moment). Resonance is out of band on 17M and 10M, but not by that much, and I've had enough climbing on the roof for a while.

SWR readings are not as good as I would of expected with single feeds, but 'what the hell'. These readings are actually on a Autek RF-1 at the end of the cable in the shack, whilst strangely enough, the SWR readings are a lot better on the rig's internal meter (all less than 2:1 across the band).

Anyway I'm pretty close, so now its off to try it all out.

CUL

David
vk2dpd@...
vk2dpd@...

594. Oh Forgot

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-03 02:30:02 UTC
From: David Douglass
Topic: 594 Message: 594

For those who have worked him - P5/4L4FN has been accredited for DXCC by the ARRL - "chalk another one off the list".

David
vk2dpd@...
vk2dpd@...

595. Re: [hex-beam] In addition to guy info.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-03 02:39:17 UTC
From: Chris Blakely
Topic: 592 Message: 595

N6TZ wrote:

always calculate the
worse case situation, then look for rating of material at least two
to four hundred times capability.
For instance, if we calculated 100 lb need, then we would use
material of 200 to 400 lb strength.

Seems to me that would have to be 20,000 - 40,000 Lbs if we used that
criteria. Probably hold up the Seattle Space Needle ok. :-))

73 & GL
Chris,AB1R (HX5B #116)

----- Original Message -----
From: "n6tz" <halw@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, April 02, 2002 18:29 PM
Subject: [hex-beam] In addition to guy info.

> In addition to my previous posting on wind load.
> Remember, when rating a guy cable/rope/etc., > On the use of fabric
materials, think twice if you have trees nearby
> with squirrels. They love to chew on those materials and take them
> for nesting material.
>
> Hal N6TZ
>
>
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>
>

596. Re: SWR MKII homebrew

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-03 10:47:42 UTC
From: on4ccw
Topic: 593 Message: 596

Hi David, not bored at all!!! My attempt will be one-line-fed system (just to have had the experiance...)sorry it take's a long time untill i'm there, but you can count on it.
I'll make a "flexibel"connection between the end of the radiator and the feed line , so i can find the right place to make the connection using a clamp. For the lenght adjustment of the radiator, i'll use a turnable device which can be turnend in or out so it changes in lenght. (the foto's will make it more claer i hope...as i know my writing isn' hi... :)
Greetings to all
Peter

t--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Apologies as you are all probably getting a little bored with all this
> ''Homebrew Stuff''.
>
> I have just uploaded a graph of SWR plots for the MKII Homebrew Hex now
> raised to full height, and tuned (as best as I can be bothered at the
> moment). Resonance is out of band on 17M and 10M, but not by that much, and
> I've had enough climbing on the roof for a while.
>
> SWR readings are not as good as I would of expected with single feeds, but
> 'what the hell'. These readings are actually on a Autek RF-1 at the end of
> the cable in the shack, whilst strangely enough, the SWR readings are a lot
> better on the rig's internal meter (all less than 2:1 across the band).
>
> Anyway I'm pretty close, so now its off to try it all out.
>
> CUL
>
> David
> vk2dpd@q...
> vk2dpd@b...

597. Re: [hex-beam] Re: SWR MKII homebrew

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-03 11:08:51 UTC
From: David Douglass
Topic: 593 Message: 597

Peter,

Thanks for the mail, and sounds interesting.

One other thing I would suggest is to make sure that you can adjust the points at which the elements connect to all spreaders, such as using hose clamps that can be moved up and down on the spreader. This way you can remove any slack from the elements when assembling. I ended up having to take out the slack with cable ties.

I was hoping for a little better SWR on this antenna, but it is not so bad and I have already made a few QSO's, even though conditions are poor. I have F/B ratio on 20/17/15M of about 2-3S points, but no propagation on 12/10M at the moment to try.

Also what I did find was that the SWR changed quite a bit from having the antenna just above the roof (approx 5m high), to putting it up to 10M high. This may also be because my shack roof is metal. (Barry take note!! I should of taken more notice of you, and I wouldn't of went out of band on 17M!!)

Good luck and again, thanks for the mail

David, VK2DPD
----- Original Message -----
From: on4ccw
To: hex-beam@yahoogroups.com
Sent: Wednesday, April 03, 2002 10:47 AM
Subject: [hex-beam] Re: SWR MKII homebrew

Hi David, not bored at all!!! My attempt will be one-line-fed system
(just to have had the experiance...)sorry it take's a long time
untill i'm there, but you can count on it.
I'll make a "flexibel"connection between the end of the radiator and
the feed line , so i can find the right place to make the connection
using a clamp. For the lenght adjustment of the radiator, i'll use a
turnable device which can be turnend in or out so it changes in
lenght. (the foto's will make it more claer i hope...as i know my
writing isn' hi... :)
Greetings to all
Peter

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> ''Homebrew Stuff''.
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> I have just uploaded a graph of SWR plots for the MKII Homebrew Hex
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> raised to full height, and tuned (as best as I can be bothered at

the
> moment). Resonance is out of band on 17M and 10M, but not by that
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> SWR readings are not as good as I would of expected with single
feeds, but
> 'what the hell'. These readings are actually on a Autek RF-1 at the
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> better on the rig's internal meter (all less than 2:1 across the
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>
> CUL
>
> David
> vk2dpd@q...
> vk2dpd@b...

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[Non-text portions of this message have been removed]

598. Re: SWR MKII homebrew

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-03 13:34:15 UTC
From: w4wb
Topic: 593 Message: 598

Very interesting. Yep, the resonance does vary a fair amount from the low to operational height. Great progress. The F/B seems about right. Hope the gain is good as well.

Congratulations on working Ed the P5. I don't know what it will take short of him calling for US only by call zones or by call signs (hi hi)for us to work him. Heard him twice at very low level and those pesky US West Coast stations cover us East Coast guys up (plus we have a nastier polar path to follow. :-(

Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Peter,
>
<snip>
> Also what I did find was that the SWR changed quite a bit from having the antenna just above the roof (approx 5m high), to putting it up to 10M high. This may also be because my shack roof is metal. (Barry take note!! I should of taken more notice of you, and I wouldn't of went out of band on 17M!!)
>
> Good luck and again, thanks for the mail
>
> David, VK2DPD

599. Watch your tongue!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-03 17:55:21 UTC
From: Herbert Meiselman
Topic: 599 Message: 599

Hello to all:

Once again, Barry The Elder (aka Uncle Barry, Barry The Wise) has done it! The following text is from his latest email (color added for emphasis):

Heard him twice at very low level and those
pesky US West Coast stations cover us East Coast guys up (plus we
have a nastier polar path to follow.

"Pesky US West Coast stations"? How dare he! We on the western part of the USA are defending those who live elsewhere and who are not blessed with the Californian Lifestyle. We are the salvation of the Nation, defenders of the American Way, and rightful owners of all DX that is good!

Be careful with your tongue lest your comments offend the HF/DX/RF spirits.

73s,

Herb, K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

600. Re: Watch your tongue!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-03 18:13:02 UTC
From: w4wb
Topic: 599 Message: 600

Gee Herb, I think you made my point exceptionally well. :-)

So have you mounted your Hex-Beam upside down yet?

73 de Barry - W4WB

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> Hello to all:
>
> Once again, Barry The Elder (aka Uncle Barry, Barry The Wise) has
done it! The following text is from his latest email (color added
for emphasis):
>
> Heard him twice at very low level and those
> pesky US West Coast stations cover us East Coast guys up (plus we
> have a nastier polar path to follow).
>
> "Pesky US West Coast stations"? How dare he! We on the western
part of the USA are defending those who live elsewhere and who are
not blessed with the Californian Lifestyle. We are the salvation of
the Nation, defenders of the American Way, and rightful owners of all
DX that is good!
>
> Be careful with your tongue lest your comments offend the HF/DX/RF
spirits.
>
> 73s,
>
> Herb, K6HJM

601. Re: [hex-beam] Watch your tongue!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-03 22:01:13 UTC
From: Brad Sumner
Topic: 599 Message: 601

Herb,

I hate to get into this but maybe Barry has a point. Both coasts seem to have a pretty easy go of the DX. I have often heard stations calling for the "west coast only". I can't imagine why they would do that as I sit here in the RF depressed gulch of the middle US. Our DX is further no matter which way you go. Maybe if you are within a couple of hundred miles of the Mississippi River DXCC credit should be given for only 90 confirmations.

And about "defending those who live elsewhere and who are not blessed with the Californian Lifestyle. We are the salvation of the Nation, defenders of the American Way, and rightful owners of all DX that is good!" Oh my! April Fool's day is past ya know.

I'm really looking forward to meeting you guys who can get to Dayton.

73,

Brad K0TRL

602. I give up!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-04 04:20:27 UTC
From: Meiselman
Topic: 602 Message: 602

Hello again to all.

OK...I give up! I try to do my best to bring a civilized message of hope to those not living the California Lifestyle, and what do I get? NO RESPECT!

From now on, 'ol Herb will restrain from attempts at improving the mood of HB owners and groupies. I just hope my tears don't short out my transceiver and amp...but who cares anyway (sigh, sigh, sigh).

73s,

Herb K6HJM

PS: Worked XZ5DB on 20 meters...love the HB!

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

603. Homebrew Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-04 11:46:49 UTC
From: David Douglass
Topic: 603 Message: 603

And there's more!

Well, F/B ratio seems good on all bands 20-12M (still no propagation on 10 to check), with between 2-4S units depending on location of DX station. 15M operation seems to definite improvement over the single feed antenna, so looks like the change may be worthwhile after all.

The antenna even had to weather its first storm today, so hopefully it doesn't all come apart on me.

Regards All

David, VK2DPD
vk2dpd@...
vk2dpd@...

604. Re: Homebrew Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-04 21:25:20 UTC
From: xe1xoe
Topic: 603 Message: 604

Hello Dave and all,

I am new to the group. I will like to try to homebrew an hexbeam for 10-15-20 mts. I have read your messages with a lot of interest and encourage me to try it. Will like to know how long are the arms on your Hexbeam, I will try to build mine using fiberglass.
Tanks in advance and hope your antenna came a alive after the storm.

Miguel
XE1XOE

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> And there's more!
>
> Well, F/B ratio seems good on all bands 20-12M (still no propagation on 10
> to check), with between 2-4S units depending on location of DX station. 15M
> operation seems to definite improvement over the single feed antenna, so
> looks like the change may be worthwhile after all.
>
> The antenna even had to weather its first storm today, so hopefully it
> doesn't all come apart on me.
>
> Regards All
>
> David, VK2DPD
> vk2dpd@q...
> vk2dpd@b...

605. Re: [hex-beam] Re: SWR MKII homebrew

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-04 21:15:30 UTC
From: Nigel A. Gunn
Topic: 593 Message: 605

The West Coast guys also have bigger Kilowatts.
----- Original Message -----
From: "w4wb" <w4wb@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, April 03, 2002 2:34 PM
Subject: [hex-beam] Re: SWR MKII homebrew

> Very interesting. Yep, the resonance does vary a fair amount from the
> low to operational height. Great progress. The F/B seems about
> right. Hope the gain is good as well.
>
> Congratulations on working Ed the P5. I don't know what it will take
> short of him calling for US only by call zones or by call signs (hi
> hi)for us to work him. Heard him twice at very low level and those
> pesky US West Coast stations cover us East Coast guys up (plus we
> have a nastier polar path to follow. :-(
>
> Barry - W4WB
>
>
> --- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> > Peter,
> >
> <snip>
> > Also what I did find was that the SWR changed quite a bit from
> having the antenna just above the roof (approx 5m high), to putting
> it up to 10M high. This may also be because my shack roof is metal.
> (Barry take note!! I should of taken more notice of you, and I
> wouldn't of went out of band on 17M!!)
> >
> > Good luck and again, thanks for the mail
> >
> > David, VK2DPD
>
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

606. RE: [hex-beam] Re: SWR MKII homebrew

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-04 22:40:13 UTC
From: Peter D. Vouvounas
Topic: 593 Message: 606

"The West Coast guys also have bigger Kilowatts"

NOT!! Especially since they are often out of commercial power!

73
REN WB3FSR

No power on the West Coast & No water on the East Coast

-----Original Message-----
From: Nigel A. Gunn [mailto:nigel@...]
Sent: Thursday, April 04, 2002 16:16
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] Re: SWR MKII homebrew

.
----- Original Message -----
From: "w4wb" <w4wb@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, April 03, 2002 2:34 PM
Subject: [hex-beam] Re: SWR MKII homebrew

> Very interesting. Yep, the resonance does vary a fair amount from the
> low to operational height. Great progress. The F/B seems about
> right. Hope the gain is good as well.
>
> Congratulations on working Ed the P5. I don't know what it will take
> short of him calling for US only by call zones or by call signs (hi
> hi)for us to work him. Heard him twice at very low level and those
> pesky US West Coast stations cover us East Coast guys up (plus we
> have a nastier polar path to follow. :-(
>
> Barry - W4WB
>
>
> --- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> > Peter,
> >
> <snip>
> > Also what I did find was that the SWR changed quite a bit from
> having the antenna just above the roof (approx 5m high), to putting
> it up to 10M high. This may also be because my shack roof is metal.
> (Barry take note!! I should of taken more notice of you, and I
> wouldn't of went out of band on 17M!!)
> >
> > Good luck and again, thanks for the mail

> >
> > David, VK2DPD
>
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
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>
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> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

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607. Re: [hex-beam] I give up!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-05 03:22:48 UTC
From: Brad Sumner
Topic: 602 Message: 607

Don't give up, Herb. This is just beginning to be fun. I called the Kansas City Chamber of Commerce to get some stuff about the midwest quality of life for you guys on the coast. You know--seasons---snow---ice---tornados. There is no telling how good a hb will work once you get it wound up.

Are you going to Dayton this year?

73,

Brad K0TRL

608. More Homebrew Stuff

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-05 09:30:01 UTC
From: David Douglass
Topic: 608 Message: 608

I've uploaded some pictures sent from Joe, AA5HP, ("hope you don't mind Joe!!")showing his multi-band Hex centre post. They are in a folder in the pictures section called AA5HP.

As you will see, Joe is more adept at this Homebrewing business than me and has developed a very neat feed system and element attachment point for the spreaders.

Good luck Joe and keep them coming!!

David, VK2DPD
vk2dpd@...
vk2dpd@...

609. Re: More Homebrew Stuff

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-05 15:59:54 UTC
From: w6hb
Topic: 608 Message: 609

Nice job Joe and David. It looks like you are running the coax feed down the mast between the hot and cold legs of the driven element. For whatever reason, the commercial version elects to route the coax between the driven element cold leg and the adjacent reflector leg. Continued good luck with your evolutions.

73 - Doug - W6HB - HX-5Bi #172

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> I've uploaded some pictures sent from Joe, AA5HP, ("hope you don't mind
> Joe!!")showing his multi-band Hex centre post. They are in a folder in the
> pictures section called AA5HP.
>
> As you will see, Joe is more adept at this Homebrewing business than me and
> has developed a very neat feed system and element attachment point for the
> spreaders.
>
> Good luck Joe and keep them coming!!
>
> David, VK2DPD
> vk2dpd@q...
> vk2dpd@b...

610. HexBeam Measurements . . . .

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-05 16:52:55 UTC
From: g4mjw
Topic: 610 Message: 610

Hi all,

I am new to the group. When the WX is fine, I am found outside making "Wire" aerials. When it's cold and wet on goes the soldering iron in doors!

I have recently made a few Mono-band 2 ele wire beams for 15 mtrs. A VK2ABQ, a DDelta (double delta loop) and a quad. The DDelta is the easiest to make, very light, has more gain and better F/B ratio than the 'ABQ and abt equal to the Quad. I have made a mono-band Hex Beam for 15mtrs from some info given to me on a scrap of paper. According to the note, the measurements were calculated from 520/F. Cut for 21.300MHz my driven element was 24ft-5" and the refrlector 25ft-5" OA (4% larger). When set up on a 12ft pole, the array is resonant @ 20.500MHz'ish

I have progessively "Trimmed" the driven and reflector (maintaining 4% larger than driven) and it is now resonant on 21.250MHz with an SWR of 1.5:1 I have not maintained equal leg lengths . . infact it's now well out of shape and the angles are 75-80 degrees! I worked KW1I - Dale in New Hampshire on AM (regular sched) and my report was abt the same as my Ext.D.Zepp up at 55ft, So it's working. As with any beam, it will be different up on the mast. It'll take me the best part of the day to take other antennas down and get the beast up. I would like to check all the measurements, angles etc to see if any improvements can be made in advance!!!

Can someone tell me where I can obtain the measurements and figures for a mono-band version. It seems I have done my favourite . . . tried to re-invent the wheel!

Many thanks - Bye for now - Steve/G4MJW
Witham, Essex, UK
K2 # 2408
http://www.skylites.freeserve.co.uk

611. W4WB working A41LZ on 18.1

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-05 17:57:16 UTC
From: k_tieff
Topic: 611 Message: 611

Just heard you, Barry. Nice signal in Norway, too. @ what power? The hex becoming more and more of a thing I'd like to put above my roof....

73
Chris / LA8OM

612. Re: [hex-beam] I give up!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-05 18:12:33 UTC
From: Herbert Meiselman
Topic: 602 Message: 612

I think I may need to retract my earlier statement about being silent! Mr. Brad (K0TRL) has called into question my understanding of life outside of California, and thus I must respond!

I was born and raised in Jamestown, New York which is in the southwest corner of New York state...about 60 miles south of Buffalo, NY. Lived there for 20 years! For those who don't know the area, it is the "snowbelt" of the state, with lots of snow coming from the Lake Erie area. Thus, snow, ice, salt on roads, snow tires, rusting cars, etc.

I then spent 2 years going to school in the most god-forsaken place in the USA... Houghton, Michigan. This is in the upper peninsula of Michigan on a small stub of land that sticks out into Lake Superior. The yearly snowfall averages 300 inches...they have city snowblowers for the sidewalks as well as the streets, and people build temporary wooden "bridges" from their front porches to the street!

Lastly, 3 years in Cambridge, MA doing my doctoral work at MIT. The Cambridge/Boston area is hot+humid in the summer and cold+wet in the winter.

I HAVE PAID MY DUES...AND THAT IS WHY I LIVE AND DX (AND DON'T SUFFER) IN SOUTHERN CALIFORNIA!

Are there any questions? If not...class dismissed.

73s,

Herb K6HJM

At 09:22 PM 4/4/02 -0600, you wrote:
>Don't give up, Herb. This is just beginning to be fun. I called the
>Kansas City Chamber of Commerce to get some stuff about the midwest
>quality of life for you guys on the coast. You
>know--seasons---snow---ice---tornados. There is no telling how good a
>hb will work once you get it wound up.
>
>Are you going to Dayton this year?
>
>73,
>
>Brad K0TRL
>
>
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>
>Your use of Yahoo! Groups is subject to the
><http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
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Los Angeles, CA 90033
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(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

613. My Homebrew Info

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-05 19:31:45 UTC
From: Joe C
Topic: 613 Message: 613

Thanks to David for posting my pictures to the users group.
I was not sure how to do it.
I am using the formula of 6160/f for the Driven and 6262/f for the reflector for all bands.
By my calculations that makes the reflector a little less than 2 percent difference between the driven and reflector lengths.
Some homebrewers are making the feflector 4 percent bigger.
I wonder which is better?
Any Thoughts Guys?????????

I am using an antenna switch to remotely switch bands. My next photos (hopefully next week when the thing is strung and put up) will include pictures of the hub/mast with the antenna switch installed.
I hope that feeding each band seperately will reduce interaction and make it easier to make SWR adjustments when it is put on a push-em-up pole here on top of my work QTH.

Will keep everyone posted as to my progress.

Joe AA5HP

614. Re: SWR MKII homebrew

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-05 21:21:50 UTC
From: on4ccw
Topic: 593 Message: 614

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Peter,
>
> Thanks for the mail, and sounds interesting.
>
> One other thing I would suggest is to make sure that you can adjust the points at which the elements connect to all spreaders, such as using hose clamps that can be moved up and down on the spreader. This way you can remove any slack from the elements when assembling. I ended up having to take out the slack with cable ties.
>
> I was hoping for a little better SWR on this antenna, but it is not so bad and I have already made a few QSO's, even though conditions are poor. I have F/B ratio on 20/17/15M of about 2-3S points, but no propagation on 12/10M at the moment to try.
>
> Also what I did find was that the SWR changed quite a bit from having the antenna just above the roof (approx 5m high), to putting it up to 10M high. This may also be because my shack roof is metal. (Barry take note!! I should of taken more notice of you, and I wouldn't of went out of band on 17M!!)
>
> Good luck and again, thanks for the mail
>
> David, VK2DPD
> ----- Original Message -----
> From: on4ccw
> To: hex-beam@y...
> Sent: Wednesday, April 03, 2002 10:47 AM
> Subject: [hex-beam] Re: SWR MKII homebrew
>
ok david. I'll have the same problem when i start tuning because i' have limitted space . i have a plastic tube of about 6 meters where i'll will put it on , put it's a bit "gelly"
i'm building also a mast which can be lowered down to about 4 meters and it will be 10 meters high when it is at it's biggest hight.
it is constructed of two poles which fit in eachother. The outer pole is driven into the ground for about 5 meters using water and air.(i know, i have stranges methods sometimes...). The result is a pole of 4 meters above the ground when it is not erected.(my neigbours like it that way...so does the misses.:))
what kind of change in the swr did you see? whas it the same on all bands?

Oh i almost forgot! we have another thing in common : here in Belgium
we have the finest beers of the world!...(ok , europe..)we produce
about 350 kinds and were o so small(as a country that is)The
Britisch people just love to come over, but they can't hold up there
likeur...to bad..hi
later
Peter
> Hi David, not bored at all!!! My attempt will be one-line-fed
system
> (just to have had the experiance...)sorry it take's a long time
> untill i'm there, but you can count on it.
> I'll make a "flexibel"connection between the end of the radiator
and
> the feed line , so i can find the right place to make the
connection
> using a clamp. For the lenght adjustment of the radiator, i'll
use a
> turnable device which can be turnend in or out so it changes in
> lenght. (the foto's will make it more claer i hope...as i know my
> writing isn' hi... :)
> Greetings to all
> Peter
>
>
> t--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> > Apologies as you are all probably getting a little bored with
all
> this
> > ''Homebrew Stuff''.
> >
> > I have just uploaded a graph of SWR plots for the MKII Homebrew
Hex
> now
> > raised to full height, and tuned (as best as I can be bothered
at
> the
> > moment). Resonance is out of band on 17M and 10M, but not by
that
> much, and
> > I've had enough climbing on the roof for a while.
> >
> > SWR readings are not as good as I would of expected with single
> feeds, but
> > 'what the hell'. These readings are actually on a Autek RF-1 at
the
> end of
> > the cable in the shack, whilst strangely enough, the SWR
readings
> are a lot
> > better on the rig's internal meter (all less than 2:1 across
the

> band).
> >
> > Anyway I'm pretty close, so now its off to try it all out.
> >
> > CUL
> >
> > David
> > vk2dpd@q...
> > vk2dpd@b...
>
>
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>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@y...
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>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>
> [Non-text portions of this message have been removed]

615. Re: I give up! Why?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 02:21:34 UTC
From: w4wb
Topic: 602 Message: 615

Poor Herb! I do have one small question. Since you have paid your dues, why don't you get your Hex-Beam up to a respectable height and tell your XYL and neighbors where they can go if they don't like it?

73 de Barry - W4WB

p.s. Please send forwarding address after your stay in the hospital is completed. hi hi

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
<snip>
> I HAVE PAID MY DUES...AND THAT IS WHY I LIVE AND DX (AND DON'T SUFFER) IN SOUTHERN CALIFORNIA!
>
> Are there any questions? If not...class dismissed.
>
> 73s,
>
> Herb K6HJM

616. Re: SWR MKII homebrew

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 02:29:23 UTC
From: w4wb
Topic: 593 Message: 616

I have to agree Peter regarding the fine beers in Belgium. While teaching for a short while there, I made a gallant effort to try the 300+ different beers available in the town. Having a Scottish and Irish heritage, I don't suffer the modest problem of the English with holding a few pints. ;-) Perhaps a few extra will help the tuning of the Hex-Beam!

73 de Barry - W4WB

--- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> >
> <snip>
> Oh i almost forgot! we have another thing in common : here in Belgium we have the finest beers of the world!...(ok , europe..)we produce about 350 kinds and were o so small(as a country that is)The
> Britisch people just love to come over, but they can't hold up there likeur...to bad..hi
> later
> Peter

617. Re: W4WB working A41LZ on 18.1

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 02:15:30 UTC
From: w4wb
Topic: 611 Message: 617

Hi Chris,
Thanks for the good report. The A4 was a new one for me. Also got two more new ones today. One was HFP0POL anf the other was ET2PMW. The ET was reportedly operating QRP! Getting 3 new ones in a day is becoming a rarer event now that I am at the 260+ level.

In answer to your question about power, I was running a FT-1000MP and VL-1000 amp. Peak output power was 1000-1060 W and the average output power was 750-850 W. I use a Heil Goldline microphone with a Studio element. My processing and other adjustments are made to give the sound of an enhanced Heil HC-5.

I now have you on my watch list of call signs Chris to work. Hope we chat soon (with a Hex-Beam above your roof would be nice). :-)

73 de Barry - W4WB

--- In hex-beam@y..., "k_tieff" <k_tieff@y...> wrote:
> Just heard you, Barry. Nice signal in Norway, too. @ what power? The hex becoming more and more of a thing I'd like to put above my roof....
>
> 73
> Chris / LA8OM

618. K8NKE - message to Dale

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 03:01:31 UTC
From: w4wb
Topic: 618 Message: 618

Dale,

I have no idea why you can't join this group. I tried to reply to your email dmess @ tc3net.com (with no spaces of course) and the message was reject each time. I use three different routes to you with the same results.

Keep trying. Email me direct if you cantinue to have trouble.

73 de Barry - W4WB
Group Moderator

619. Re: [hex-beam] Re: More Homebrew Stuff

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 05:59:44 UTC
From: David Douglass
Topic: 608 Message: 619

Hi Doug,

That's an interesting point, and to be quite honest I could never figure out why it was recommended that you run the coax down the side on the HX-5i??

I would of thought keeping the coax down the middle and symmetrical would be the go, but I'm sure someone will correct me. I also could never figure out why the elements on the HX-5Bi were not fed at the bottom (10M), if there was an issue with the coax cable effecting things, as you expect the coax to have some effect on the twin feeder in the centre pole??

Anyway, it seems to work OK with this method so have no plans to change - that is unless someone has a good reason why I should??

Regards

David, VK2DPD.

----- Original Message -----
From: w6hb
To: hex-beam@yahoogroups.com
Sent: Friday, April 05, 2002 3:59 PM
Subject: [hex-beam] Re: More Homebrew Stuff

Nice job Joe and David. It looks like you are running the coax feed
down the mast between the hot and cold legs of the driven element.
For whatever reason, the commercial version elects to route the coax
between the driven element cold leg and the adjacent reflector leg.
Continued good luck with your evolutions.

73 - Doug - W6HB - HX-5Bi #172

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> I've uploaded some pictures sent from Joe, AA5HP, ("hope you don't
mind
> Joe!!")showing his multi-band Hex centre post. They are in a folder
in the
> pictures section called AA5HP.
>
> As you will see, Joe is more adept at this Homebrewing business
than me and
> has developed a very neat feed system and element attachment point
for the
> spreaders.
>
> Good luck Joe and keep them coming!!
>

> David, VK2DPD
> vk2dpd@q...
> vk2dpd@b...

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[Non-text portions of this message have been removed]

620. Re: [hex-beam] HexBeam Measurements . . . .

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 06:04:36 UTC
From: David Douglass
Topic: 620 Message: 620

Steve,

Looks in the files section on the YahooGroups Hex-Beam page and you can download an article from Communications Quarterly by Mike Traffie, this contain dimensions with drawings etc etc.

Good luck.

David, VK2DPD

PS prior to building the Hex-Beam I had made a couple of Moxon Rectangles (Modified VK3ABQ's), and they were both damn fine antennas.
----- Original Message -----
From: g4mjw
To: hex-beam@yahoogroups.com
Sent: Friday, April 05, 2002 4:52 PM
Subject: [hex-beam] HexBeam Measurements . . . .

Hi all,

I am new to the group. When the WX is fine, I am found outside making "Wire" aerials. When it's cold and wet on goes the soldering iron in doors!

I have recently made a few Mono-band 2 ele wire beams for 15 mtrs. A VK2ABQ, a DDelta (double delta loop) and a quad. The DDelta is the easiest to make, very light, has more gain and better F/B ratio than the 'ABQ and abt equal to the Quad. I have made a mono-band Hex Beam for 15mtrs from some info given to me on a scrap of paper. According to the note, the measurements were calculated from 520/F. Cut for 21.300MHz my driven element was 24ft-5" and the refrlector 25ft-5" OA (4% larger). When set up on a 12ft pole, the array is resonant @ 20.500MHz'ish

I have progessively "Trimmed" the driven and reflector (maintaining 4% larger than driven) and it is now resonant on 21.250MHz with an SWR of 1.5:1 I have not maintained equal leg lengths . . infact it's now well out of shape and the angles are 75-80 degrees! I worked KW1I - Dale in New Hampshire on AM (regular sched) and my report was abt the same as my Ext.D.Zepp up at 55ft, So it's working. As with any beam, it will be different up on the mast. It'll take me the best part of the day to take other antennas down and get the beast up. I would like to check all the measurements, angles etc to see if any improvements can be made in advance!!!

Can someone tell me where I can obtain the measurements and figures for a mono-band version. It seems I have done my favourite . . .

tried to re-invent the wheel!

Many thanks - Bye for now - Steve/G4MJW
Witham, Essex, UK
K2 # 2408
http://www.skylites.freeserve.co.uk

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621. Beer

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 06:15:51 UTC
From: David Douglass
Topic: 621 Message: 621

Barry,

In response to you comment..

"I don't suffer the modest problem of the English with holding a few pints".

Being English I take some offence at this, especially from someone living in country who's premium beer seems to be Budweiser. We give our kids stronger stuff than that in their lunch boxes for school.

David, VK2DPD

PS Good going on the new DX
vk2dpd@...
vk2dpd@...

622. Re: [hex-beam] Re: SWR MKII homebrew

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 07:05:36 UTC
From: Nigel A. Gunn
Topic: 593 Message: 622

At least the English can get decent beer; not something I found in excess in the US when I visited. There is, however, a very good Irish pub in Dayton OH.

----- Original Message -----
I don't suffer the modest problem of the English with holding a few pints.
;-)

623. Re: Beer & tuning the Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 13:20:25 UTC
From: w4wb
Topic: 621 Message: 623

Well David, glad to see that you have learned well from your VK friends. All of my friends from there can out-drink anyone else I have been around. I rather agree about the Budweiser beer, but we do have some fine ones as well. Nigel made a good point too. We have lots of fine Irish pubs, but never have seen an English pub here. (I do enjoy going to them while in England I must admit.)

In trying to keep to the Hex-Beam topic, I do remember Traffie telling me that it is important to run the coax as previously mentioned, but I can't recall his explanation. He said that it did make a difference in performance.

Keep you the FB development.

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Barry,
>
> In response to you comment..
>
> "I don't suffer the modest problem of the English with holding a few pints".
>
> Being English I take some offence at this, especially from someone living in country who's premium beer seems to be Budweiser. We give our kids stronger stuff than that in their lunch boxes for school.
>
> David, VK2DPD
>
> PS Good going on the new DX
> vk2dpd@q...

624. Re: K8NKE - message to Dale - 2nd

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 13:37:30 UTC
From: w4wb
Topic: 618 Message: 624

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Dale,
>
> I have no idea why you can't join this group. I tried to reply to
> your email dmess @ tc3net.com (with no spaces of course) and the
> message was reject each time. I use three different routes to you
> with the same results.
>
> Keep trying. Email me direct if you cantinue to have trouble.
>
> 73 de Barry - W4WB
> Group Moderator

Dale,
I got your message, but it still does not work going back to you. The
message is

dmess@...
SMTP error from remote mailer after MAIL FROM:<barry@...>
SIZE=3065:
host tc3net.com [216.90.48.2]: 571 5.7.1 Mail from 209.197.236.29
refused, see http://www.spews.org/

Your ISP has a anti-spam filter on and it is set too high. I have
seen this before. It filters everything from certain ISPs. You don't
show in the HEx-Beam Group Activity that shows me what actions are
being taken with everyone regarding this list. Can you use a
different email? Maybe arrl.net if a member?

Sorry to the list member for having to communicat with Dale this way,
but have no other method.
73 de Barry

625. Re: [hex-beam] Beer

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 14:14:31 UTC
From: Nick J Chiarchiaro, CET
Topic: 621 Message: 625

Hi David,

I agree, what some Americans consider beer is rather like water...

While it may be nice to hydrate oneself while mowing the lawn with a Coors light or Budweiser, a good solid pint requires something a tad more robust.

As far as holding a few pints, I never trusted a man who could not hold a few pints or appreciate a fine ale.

As an aside, my cousins are in from Liverpool and the first thing they said to me is,...." how do I survive with my local being more than a few miles away." Now that's what I call prioritization !.

Best 73,

Nick
N2QXF

(Who is going to appreciate two or three pints of some fine Caffery's Irish Ale later today)

----- Original Message -----
From: "David Douglass" <vk2dpd@...>
To: "HEX-BEAM" <hex-beam@yahoogroups.com>
Sent: Saturday, April 06, 2002 1:15 AM
Subject: [hex-beam] Beer

> Barry,
>
> In response to you comment..
>
> "I don't suffer the modest problem of the English with holding a few pints".
>
> Being English I take some offence at this, especially from someone living in
> country who's premium beer seems to be Budweiser. We give our kids stronger
> stuff than that in their lunch boxes for school.
>
> David, VK2DPD
>
> PS Good going on the new DX
> vk2dpd@...
> vk2dpd@...
>

626. Re: HexBeam Measurements . . . .

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 16:55:29 UTC
From: g4mjw
Topic: 620 Message: 626

Thanks for the info David.

Have checked the caculations against mine and they are prety close.
The "Test" Aerial is only 10ft AGL . . . . so it's time to put it on
the mast and try it out at 50ft!!!

Thanks for yr help - Steve/G4MJW
http://www.skylites.freeserve.co.uk

< SNIP>

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Steve,
>
> Looks in the files section on the YahooGroups Hex-Beam page and you
can download an article from Communications Quarterly by Mike
Traffie, this contain dimensions with drawings etc etc.
>

627. Re: [hex-beam] Re: More Homebrew Stuff

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 17:57:53 UTC
From: Joe C
Topic: 608 Message: 627

Doug,
I don't know why the commercial hex coax is run like it is.
I may find that when I put mine up this week that running the coax between the hot and cold legs may cause some unexpected interaction. I am winging this as I go but will certainly let you know what happens when it goes up. I figured that using seperate feeds would help eliminate any interactions and also make it easier to tune individual bands if necessary. I am keeping my fingers crossed.
Joe AA5HP

w6hb wrote:

> Nice job Joe and David. It looks like you are running the coax feed
> down the mast between the hot and cold legs of the driven element.
> For whatever reason, the commercial version elects to route the coax
> between the driven element cold leg and the adjacent reflector leg.
> Continued good luck with your evolutions.
>
> 73 - Doug - W6HB - HX-5Bi #172
>
>
>
> --- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> > I've uploaded some pictures sent from Joe, AA5HP, ("hope you don't
> mind
> > Joe!!")showing his multi-band Hex centre post. They are in a folder
> in the
> > pictures section called AA5HP.
> >
> > As you will see, Joe is more adept at this Homebrewing business
> than me and
> > has developed a very neat feed system and element attachment point
> for the
> > spreaders.
> >
> > Good luck Joe and keep them coming!!
> >
> > David, VK2DPD
> > vk2dpd@q...
> > vk2dpd@b...
>
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>
>
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[Non-text portions of this message have been removed]

628. Re: [hex-beam] Re: HexBeam Measurements . . . .

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 23:12:42 UTC
From: David Douglass
Topic: 620 Message: 628

Hi Steve and pleased you found the information.

I had to shorten mine quite a bit, but I was using insulated wire which does have a different velocity factor. Be care with adjustments as resonance does vary with high. I did my adjustments at about 15 foot (on the roof), and when I raised the antenna resonance seemed to shift up the band a little. This could also have had something to do with the fact the shack roof is metal also.

Good luck

David
----- Original Message -----
From: g4mjw
To: hex-beam@yahoogroups.com
Sent: Saturday, April 06, 2002 4:55 PM
Subject: [hex-beam] Re: HexBeam Measurements . . . .

Thanks for the info David.

Have checked the caculations against mine and they are prety close.
The "Test" Aerial is only 10ft AGL . . . . so it's time to put it on
the mast and try it out at 50ft!!!

Thanks for yr help - Steve/G4MJW
http://www.skylites.freeserve.co.uk

< SNIP>

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Steve,
>
> Looks in the files section on the YahooGroups Hex-Beam page and you
can download an article from Communications Quarterly by Mike
Traffie, this contain dimensions with drawings etc etc.
>

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[Non-text portions of this message have been removed]

629. Re: [hex-beam] Re: Beer & tuning the Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-06 23:48:17 UTC
From: David Douglass
Topic: 621 Message: 629

Hi Barry,

Would also agree. What is lacked in quality (Australian beer is pretty awful), is made up for in quantity, as people drink heaps of the stuff. Whilst I can stomach it, at a push, I much prefer the imported stuff. Being from Newcastle in the UK, I'm lucky in that Newcastle Brown Ale can be bought pretty much around the World, along with Guinness. What more can a man want out of life??

David
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Saturday, April 06, 2002 1:20 PM
Subject: [hex-beam] Re: Beer & tuning the Hex-Beam

Well David, glad to see that you have learned well from your VK friends. All of my friends from there can out-drink anyone else I have been around. I rather agree about the Budweiser beer, but we do have some fine ones as well. Nigel made a good point too. We have lots of fine Irish pubs, but never have seen an English pub here. (I do enjoy going to them while in England I must admit.)

In trying to keep to the Hex-Beam topic, I do remember Traffie telling me that it is important to run the coax as previously mentioned, but I can't recall his explanation. He said that it did make a difference in performance.

Keep you the FB development.

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Barry,
>
> In response to you comment..
>
> "I don't suffer the modest problem of the English with holding a few pints".
>
> Being English I take some offence at this, especially from someone living in country who's premium beer seems to be Budweiser. We give our kids stronger stuff than that in their lunch boxes for school.
>
> David, VK2DPD
>
> PS Good going on the new DX
> vk2dpd@q...

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[Non-text portions of this message have been removed]

630. Re: [hex-beam] Beer

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-07 01:30:44 UTC
From: Robert Gerard
Topic: 621 Message: 630

Personally, I prefer Martinis and Red Wine. But being a sometimes Brit
myself (passport, Class A license (M0DAK), email address, a small flat in
London with a TS-450SAT and a wire out the window), I feel compelled to
report that Budweiser and Miller are extremely popular amongst the smart set
in London, probably because they are expensive compared to European brands.
Now that I know David's a Geordie, I know this confirmation of the quality
of palates in SW England will come as no surprise to him. 73 de Bob, K2WY
----- Original Message -----
From: "Nick J Chiarchiaro, CET" <njc@...>
To: <hex-beam@yahoogroups.com>
Cc: <vk2dpd@...>
Sent: Saturday, April 06, 2002 09:14
Subject: Re: [hex-beam] Beer

> Hi David,
>
> I agree, what some Americans consider beer is rather like water...
>
> While it may be nice to hydrate oneself while mowing the lawn with a Coors
> light or Budweiser, a good solid pint requires something a tad more
robust.
>
> As far as holding a few pints, I never trusted a man who could not hold a
> few pints or appreciate a fine ale.
>
> As an aside, my cousins are in from Liverpool and the first thing they
said
> to me is,...." how do I survive with my local being more than a few miles
> away." Now that's what I call prioritization !.
>
> Best 73,
>
> Nick
> N2QXF
>
> (Who is going to appreciate two or three pints of some fine Caffery's
Irish
> Ale later today)
>
>
> ----- Original Message -----
> From: "David Douglass" <vk2dpd@...>
> To: "HEX-BEAM" <hex-beam@yahoogroups.com>
> Sent: Saturday, April 06, 2002 1:15 AM
> Subject: [hex-beam] Beer

>
>
> > Barry,
> >
> > In response to you comment..
> >
> > "I don't suffer the modest problem of the English with holding a few
> pints".
> >
> > Being English I take some offence at this, especially from someone
living
> in
> > country who's premium beer seems to be Budweiser. We give our kids
> stronger
> > stuff than that in their lunch boxes for school.
> >
> > David, VK2DPD
> >
> > PS Good going on the new DX
> > vk2dpd@...
> > vk2dpd@...
> >
>
>
>
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>

631. Re: [hex-beam] Beer

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-07 01:32:14 UTC
From: Robert Gerard
Topic: 621 Message: 631

I meant SE England, I just didn't type it.
----- Original Message -----
From: "Robert Gerard" <rag@...>
To: <hex-beam@yahoogroups.com>
Sent: Saturday, April 06, 2002 20:30
Subject: Re: [hex-beam] Beer

> Personally, I prefer Martinis and Red Wine. But being a sometimes Brit
> myself (passport, Class A license (M0DAK), email address, a small flat in
> London with a TS-450SAT and a wire out the window), I feel compelled to
> report that Budweiser and Miller are extremely popular amongst the smart
set
> in London, probably because they are expensive compared to European
brands.
> Now that I know David's a Geordie, I know this confirmation of the quality
> of palates in SW England will come as no surprise to him. 73 de Bob, K2WY
> ----- Original Message -----
> From: "Nick J Chiarchiaro, CET" <njc@...>
> To: <hex-beam@yahoogroups.com>
> Cc: <vk2dpd@...>
> Sent: Saturday, April 06, 2002 09:14
> Subject: Re: [hex-beam] Beer
>
>
> > Hi David,
> >
> > I agree, what some Americans consider beer is rather like water...
> >
> > While it may be nice to hydrate oneself while mowing the lawn with a
Coors
> > light or Budweiser, a good solid pint requires something a tad more
> robust.
> >
> > As far as holding a few pints, I never trusted a man who could not hold
a
> > few pints or appreciate a fine ale.
> >
> > As an aside, my cousins are in from Liverpool and the first thing they
> said
> > to me is,...." how do I survive with my local being more than a few
miles
> > away." Now that's what I call prioritization !.
> >
> > Best 73,
> >

> > Nick
> > N2QXF
> >
> > (Who is going to appreciate two or three pints of some fine Caffery's
> Irish
> > Ale later today)
> >
> >
> > ----- Original Message -----
> > From: "David Douglass" <vk2dpd@...>
> > To: "HEX-BEAM" <hex-beam@yahoogroups.com>
> > Sent: Saturday, April 06, 2002 1:15 AM
> > Subject: [hex-beam] Beer
> >
> >
> > > Barry,
> > >
> > > In response to you comment..
> > >
> > > "I don't suffer the modest problem of the English with holding a few
> > pints".
> > >
> > > Being English I take some offence at this, especially from someone
> living
> > in
> > > country who's premium beer seems to be Budweiser. We give our kids
> > stronger
> > > stuff than that in their lunch boxes for school.
> > >
> > > David, VK2DPD
> > >
> > > PS Good going on the new DX
> > > vk2dpd@...
> > > vk2dpd@...
> > >
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632. Happy Birthday

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-07 05:09:36 UTC
From: w6hb
Topic: 632 Message: 632

Happy Birthday to W4WB (AKA "Wild Barry") as he continues to subsidize the AARP and HexNuts worldwide. How many BTUs are typically generated by 56 candles? I need to know as I will follow suit in about 3 months and may have to file paperwork with FERC, FEMA or the local 911 dispatcher.

73 - Doug - W6HB

633. Re: Happy Birthday

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-08 15:23:12 UTC
From: w4wb
Topic: 632 Message: 633

Gads Doug! That new call sign of yours must now mean "W6 Happy Birthday." Thanks for the kind wishes. I am just hoping that I make contact with Ed, the P5, today. A friend in the DX Club was just issued W4BC. His first DX contact was the P5! Bad news is that he was not using a Hex-Beam.

73 de Barry - W4WB

--- In hex-beam@y..., "w6hb" <w6hb@a...> wrote:
> Happy Birthday to W4WB (AKA "Wild Barry") as he continues to
> subsidize the AARP and HexNuts worldwide. How many BTUs are
typically generated by 56 candles? I need to know as I will follow
suit in about 3 months and may have to file paperwork with FERC, FEMA
or the local 911 dispatcher.
>
> 73 - Doug - W6HB

634. Homebrew Hex Progress

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-08 22:04:12 UTC
From: Joe C
Topic: 634 Message: 634

I got the 20 meter elements strung today before the heavens opened up on me.
I hope to get the remaining four bands strung tomorrow or Wednesday and
start making SWR and performance tests then.
Also hope to have more photos later this week of my 5-Band "MKI". Hope
you don't mind me stealing your title David. :)

Later Joe AA5HP

635. Re: [hex-beam] Homebrew Hex Progress

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-09 11:06:05 UTC
From: David Douglass
Topic: 634 Message: 635

Good going Joe, and fine on the name. I'm hoping that band conditions pick up soon so I can give it a try out, but did work a few last weekend in the EA RTTY contest, so I know it's radiating.

Good luck

David
----- Original Message -----
From: Joe C
To: hex-beam@yahoogroups.com
Sent: Monday, April 08, 2002 10:04 PM
Subject: [hex-beam] Homebrew Hex Progress

I got the 20 meter elements strung today before the heavens opened up on me.
I hope to get the remaining four bands strung tomorrow or Wednesday and
start making SWR and performance tests then.
Also hope to have more photos later this week of my 5-Band "MKI". Hope
you don't mind me stealing your title David. :)

Later Joe AA5HP

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[Non-text portions of this message have been removed]

636. Re: [hex-beam] Homebrew Hex Progress

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-09 14:40:07 UTC
From: Joe C
Topic: 634 Message: 636

David,
I made some mechanical misjudgements when I was stringing the 20 meter elements.
No miscalculations, just put the "cart before the horse" in my order of assembly steps.
It is all okay now but what a frustrating time I had until I realized what I was doing wrong.
Can't wait to finish the other elements and get the thing in the air for testing. Unfortunately it stormed yesterday and is still raining today.
Never fails when you want to put an antenna up. :(
Joe AA5HP

David Douglass wrote:

> Good going Joe, and fine on the name. I'm hoping that band conditions
> pick up soon so I can give it a try out, but did work a few last
> weekend in the EA RTTY contest, so I know it's radiating.
>
> Good luck
>
> David
> ----- Original Message -----
> From: Joe C
> To: hex-beam@yahoogroups.com
> Sent: Monday, April 08, 2002 10:04 PM
> Subject: [hex-beam] Homebrew Hex Progress
>
>
> I got the 20 meter elements strung today before the heavens opened
> up on me.
> I hope to get the remaining four bands strung tomorrow or Wednesday and
> start making SWR and performance tests then.
> Also hope to have more photos later this week of my 5-Band "MKI". Hope
> you don't mind me stealing your title David. :)
>
> Later Joe AA5HP
>
>
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[Non-text portions of this message have been removed]

637. Real world modeling.....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-12 02:47:30 UTC
From: w6hb
Topic: 637 Message: 637

I was just conducting a real world modeling of the HX-5Bi at 30 feet. The program used was the FT-1000MP into 100' of RG-213 without benefit of supplemental power. The path was 71 degrees with D2BB as the target. Despite an appreciable pileup that modeling won't address, Ginge found me in the din and responded with a 58 report. He was about 55 at the time. Too bad the Hexs are only a degraded 2-element Yagi!

Doug - W6HB

638. Homebrew Hex Results

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-12 03:41:01 UTC
From: Joe C
Topic: 638 Message: 638

I just put up my 5-Band Homebrew Hex (Pictures Coming Soon) and worked, in a matter of 15 minutes, CN8, TM9, 9K2, all on 15 Meters this evening. All signal reports were 5-9 running only 100 watts to the antenna. I am feeding each band separately into a remote antenna switch. The SWR is 2:1 or better on all 5 bands. The elements are aparently a bit too long. I think this is due to having 5 bands so closely arranged which is causing some added coupling. With a small amount of pruning, I hope to be able to get the SWR below 1.5:1 on all bands. By the way, my Hex is at about 35 feet here at the work QTH.

Joe AA5HP

639. POP-UP ADS - A Method to stop them

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-12 04:16:19 UTC
From: w4wb
Topic: 639 Message: 639

I having been using a program that filters out the ads on the Hex-Beam Yahoo! site and other sites when using IE and NS browsers. So far, the free version is highly effective. By that, I mean that most ads go away while just a few still display. No downsides have been noted yet. The program has the ability to filter a lot of other content as well.

The program is call Ad SUBTRACT and can be downloaded from http://www.adsubtract.com/products.html. There is a "delux" paid for version as well of course. A SPAM SUBTRACT is promised soon.

I must say that having the screen clear of the clutter is nice.

72 de Barry - W4WB

640. Re: Homebrew Hex Results

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-12 04:18:06 UTC
From: w4wb
Topic: 638 Message: 640

Way to go Joe! Keep the reports coming.
73 de Barry - W4WB

--- In hex-beam@y..., Joe C <jkcal@p...> wrote:
>
> I just put up my 5-Band Homebrew Hex (Pictures Coming Soon) and
worked, in a matter of 15 minutes, CN8, TM9, 9K2, all on 15 Meters
this evening.
> All signal reports were 5-9 running only 100 watts to the antenna.
> I am feeding each band separately into a remote antenna switch.
> The SWR is 2:1 or better on all 5 bands. The elements are aparently
a
> bit too long. I think this is due to having 5 bands so closely
arranged
> which is causing some added coupling. With a small amount of
pruning, I
> hope to be able to get the SWR below 1.5:1 on all bands.
> By the way, my Hex is at about 35 feet here at the work QTH.
>
> Joe AA5HP

641. Re: Homebrew Hex Results

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-12 04:27:55 UTC
From: w6hb
Topic: 638 Message: 641

Great job, Joe. We are looking forward to the photos!

Doug - W6HB

--- In hex-beam@y..., Joe C <jkcal@p...> wrote:
>
> I just put up my 5-Band Homebrew Hex (Pictures Coming Soon) and
worked,
> in a matter of 15 minutes, CN8, TM9, 9K2, all on 15 Meters this
evening.
> All signal reports were 5-9 running only 100 watts to the antenna.
> I am feeding each band separately into a remote antenna switch.
> The SWR is 2:1 or better on all 5 bands. The elements are aparently
a
> bit too long. I think this is due to having 5 bands so closely
arranged
> which is causing some added coupling. With a small amount of
pruning, I
> hope to be able to get the SWR below 1.5:1 on all bands.
> By the way, my Hex is at about 35 feet here at the work QTH.
>
> Joe AA5HP

643. Re: [hex-beam] Homebrew Hex Results

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-12 13:38:22 UTC
From: David Douglass
Topic: 638 Message: 643

Very good going Joe, and sounds like your off to a flying start and working DX already.

I still need to do some tuning at this end but seem to have decent F/B ratio on all bands, and SWR is good enough until I can be bothered to get back up on the roof. It seems like you guys are having all the luck with the Dx at the moment, and condx are pretty poor down here at the moment - "well I suppose there has to be some advantage to living in the US"

Looking forward to the photo's also Joe and good luck with VK9ML coming up.

David, VK2DPD
----- Original Message -----
From: Joe C
To: hex-beam@yahoogroups.com
Sent: Friday, April 12, 2002 3:41 AM
Subject: [hex-beam] Homebrew Hex Results

I just put up my 5-Band Homebrew Hex (Pictures Coming Soon) and worked,
in a matter of 15 minutes, CN8, TM9, 9K2, all on 15 Meters this evening.
All signal reports were 5-9 running only 100 watts to the antenna.
I am feeding each band separately into a remote antenna switch.
The SWR is 2:1 or better on all 5 bands. The elements are aparently a
bit too long. I think this is due to having 5 bands so closely arranged
which is causing some added coupling. With a small amount of pruning, I
hope to be able to get the SWR below 1.5:1 on all bands.
By the way, my Hex is at about 35 feet here at the work QTH.

Joe AA5HP

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[Non-text portions of this message have been removed]

644. Re: [hex-beam] Homebrew Hex Results

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-12 15:59:27 UTC
From: Joe Caluda
Topic: 638 Message: 644

I used a stock 6160/f for driven and 6262/f for reflector formula on all bands.
I think that when you multi-band this, the lengths have to be shorthened a bit because my resonant points were consistently lower than figured in initial calculations and SWR is almost exactly the same 2:1 at resonance on all bands. Very interesting.
Next step is to prune a bit on each driven (I think I will leave the reflectors alone for the moment) and see if I can get the SWR below 1.5:1 on all bands.
The antenna is definitely "playing" though and I am very excited with initial results.
I will take photos on Monday and let you see what the completed antenna looks like.
Thanks to all members for the help and guidance and especially David, VK2DPD, for his homebrewing experience and support.

Joe AA5HP

David Douglass wrote:

> Very good going Joe, and sounds like your off to a flying start and
> working DX already.
>
> I still need to do some tuning at this end but seem to have decent F/B
> ratio on all bands, and SWR is good enough until I can be bothered to
> get back up on the roof. It seems like you guys are having all the
> luck with the Dx at the moment, and condx are pretty poor down here at
> the moment - "well I suppose there has to be some advantage to living
> in the US"
>
> Looking forward to the photo's also Joe and good luck with VK9ML
> coming up.
>
> David, VK2DPD
> ----- Original Message -----
> From: Joe C
> To: hex-beam@yahoogroups.com
> Sent: Friday, April 12, 2002 3:41 AM
> Subject: [hex-beam] Homebrew Hex Results
>
>
>
> I just put up my 5-Band Homebrew Hex (Pictures Coming Soon) and
> worked,
> in a matter of 15 minutes, CN8, TM9, 9K2, all on 15 Meters this
> evening.

> All signal reports were 5-9 running only 100 watts to the antenna.
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> which is causing some added coupling. With a small amount of
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> hope to be able to get the SWR below 1.5:1 on all bands.
> By the way, my Hex is at about 35 feet here at the work QTH.
>
> Joe AA5HP
>
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[Non-text portions of this message have been removed]

645. Getting started

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-12 19:25:33 UTC
From: g0wsp
Topic: 645 Message: 645

Hi there guys - as an ardent moxon fan I`m now hooked on the
homebrew Hexi !!
Many thanks to VK2DPD and EI7BA for all your help
73 es gud DX
Phil

646. Re: [hex-beam] Getting started

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-13 01:39:50 UTC
From: David Douglass
Topic: 645 Message: 646

Hi Phil,

See you managed to log into the Yahoo Site. I wonder if you have had any luck getting the article by Mike Traffie from the file downloads area??

Good to have you on board

CUL

David
----- Original Message -----
From: g0wsp
To: hex-beam@yahoogroups.com
Sent: Friday, April 12, 2002 7:25 PM
Subject: [hex-beam] Getting started

Hi there guys - as an ardent moxon fan I`m now hooked on the
homebrew Hexi !!
Many thanks to VK2DPD and EI7BA for all your help
73 es gud DX
Phil

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[Non-text portions of this message have been removed]

647. P5/4L4FN

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-13 06:21:30 UTC
From: w6hb
Topic: 647 Message: 647

Thank you Hex-Beam! Another new entity Hexed with 100 watts.

73 - Doug - W6HB / ex-WB6ROH

648. More photo's

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-14 00:29:01 UTC
From: David Douglass
Topic: 648 Message: 648

Have just uploaded a couple more photo's showing the completed MKII Hex, into the VK2DPD folder.

I have noticed 1 disadvantage of the single feed method, this being the decreased performance on 30M. I suppose this is due to having a lot less wire operating.

Oh well!!

Regards

David
vk2dpd@...
vk2dpd@...

649. Re: [hex-beam] More photo's

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-14 01:51:19 UTC
From: Joe C
Topic: 648 Message: 649

David,
Are you using an actual 30 meter element or are you using the other
bands with a tuner?
The spreaders for the 30 meter hex must be 13 feet long or so right?
Interested in what you are doing for 30 meters.
Joe AA5HP

David Douglass wrote:

>Have just uploaded a couple more photo's showing the completed MKII Hex,
>into the VK2DPD folder.
>
>I have noticed 1 disadvantage of the single feed method, this being the
>decreased performance on 30M. I suppose this is due to having a lot less
>wire operating.
>
>Oh well!!
>
>Regards
>
>David
>vk2dpd@...
>vk2dpd@...
>
>
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>
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650. Re: [hex-beam] More photo's

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-14 02:28:50 UTC
From: David Douglass
Topic: 648 Message: 650

Hi Joe,

No I'm only using the 20M element tuned down! With the old multi-feed system the antenna seemed to work a lot better on 30M, but then again, there would of been a lot more wire up there!

However, I'd still say I prefer the single feed system for the better performance on 15 and 10M.

CUL

David
----- Original Message -----
From: "Joe C" <jkcal@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, April 14, 2002 1:51 AM
Subject: Re: [hex-beam] More photo's

> David,
> Are you using an actual 30 meter element or are you using the other
> bands with a tuner?
> The spreaders for the 30 meter hex must be 13 feet long or so right?
> Interested in what you are doing for 30 meters.
> Joe AA5HP
>
>
> David Douglass wrote:
>
> >Have just uploaded a couple more photo's showing the completed MKII Hex,
> >into the VK2DPD folder.
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> >I have noticed 1 disadvantage of the single feed method, this being the
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> >wire operating.
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> >Oh well!!
> >
> >Regards
> >
> >David
> >vk2dpd@...
> >vk2dpd@...
> >
> >
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> >

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651. Re: [hex-beam] More photo's

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-14 18:12:28 UTC
From: Joe C
Topic: 648 Message: 651

David,
Photos look great.!
I am gonna take some pictures of mine now that it is up and will try and post them in my folder that you created.
The antenna is working really well.
I just need to do a little pruning to get the SWR down.
Using seperate feeds sure makes it alot easier to get the SWR down on the individual bands.
I am using an old heathkit HD-1481 remote antenna switch that is working just fine too.
Did you use the stock formulas of 6160/f for Dr. and 6262/f for Ref.?
In my case, those numbers made all the elements a little too long.
So if any others are homebrewing like you and I, I would adjust those formulas to perhaps 6075-6100 for Dr. and try leaving the Reflector number at 6262.
This should bring the resonant frequency down to where you want it.
Will give you an update after the pruning is done.
Joe AA5HP

David Douglass wrote:

>Hi Joe,
>
>No I'm only using the 20M element tuned down! With the old multi-feed system
>the antenna seemed to work a lot better on 30M, but then again, there would
>of been a lot more wire up there!
>
>However, I'd still say I prefer the single feed system for the better
>performance on 15 and 10M.
>
>CUL
>
>David
>----- Original Message -----
>From: "Joe C" <jkcal@...>
>To: <hex-beam@yahoogroups.com>
>Sent: Sunday, April 14, 2002 1:51 AM
>Subject: Re: [hex-beam] More photo's
>
>
>>David,
>>Are you using an actual 30 meter element or are you using the other
>>bands with a tuner?
>>The spreaders for the 30 meter hex must be 13 feet long or so right?
>>Interested in what you are doing for 30 meters.

>>Joe AA5HP
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>>
>>David Douglass wrote:
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>>>decreased performance on 30M. I suppose this is due to having a lot less
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>>>David
>>>vk2dpd@...
>>>vk2dpd@...
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652. Re: More photo's

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-14 20:13:30 UTC
From: w6hb
Topic: 648 Message: 652

Keep up the great HB (Home Brew) work Joe and David. As you seek a lower VSWR, remember that the characteristic impedance of the Hex is around 20 to 25 ohms. Don't confuse it's resonance for it's point of lowest VSWR. If you have the MFJ-259 or similiar, you might want to find out where reactance is zero before you start cutting. To use the old line, "I cut it seven times and it is still too short!"

73 - Doug - W6HB

--- In hex-beam@y..., Joe C <jkcal@p...> wrote:
> David,
> Photos look great.!
> I am gonna take some pictures of mine now that it is up and will try and
> post them in my folder that you created.
> The antenna is working really well.
> I just need to do a little pruning to get the SWR down.
> Using seperate feeds sure makes it alot easier to get the SWR down on
> the individual bands.
> I am using an old heathkit HD-1481 remote antenna switch that is working
> just fine too.
> Did you use the stock formulas of 6160/f for Dr. and 6262/f for Ref.?
> In my case, those numbers made all the elements a little too long.
> So if any others are homebrewing like you and I, I would adjust those
> formulas to perhaps 6075-6100 for Dr. and try leaving the Reflector
> number at 6262.
> This should bring the resonant frequency down to where you want it.
> Will give you an update after the pruning is done.
> Joe AA5HP
>
>
> David Douglass wrote:
>
> >Hi Joe,
> >
> >No I'm only using the 20M element tuned down! With the old multi-feed system
> >the antenna seemed to work a lot better on 30M, but then again, there would
> >of been a lot more wire up there!
> >

> >However, I'd still say I prefer the single feed system for the
better
> >performance on 15 and 10M.
> >
> >CUL
> >
> >David
> >----- Original Message -----
> >From: "Joe C" <jkcal@p...>
> >To: <hex-beam@y...>
> >Sent: Sunday, April 14, 2002 1:51 AM
> >Subject: Re: [hex-beam] More photo's
> >
> >
> >>David,
> >>Are you using an actual 30 meter element or are you using the
other
> >>bands with a tuner?
> >>The spreaders for the 30 meter hex must be 13 feet long or so
right?
> >>Interested in what you are doing for 30 meters.
> >>Joe AA5HP
> >>
> >>
> >>David Douglass wrote:
> >>
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lot less
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> >>>
> >>>Regards
> >>>
> >>>David
> >>>vk2dpd@q...
> >>>vk2dpd@b...
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653. Re: [hex-beam] More photo's

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-14 21:13:19 UTC
From: David Douglass
Topic: 648 Message: 653

Hi Joe,

Yep, used the same formulas here, but had to prune quite a bit off to get resonance. I still need to play with 10M as the low point is around 27.85Mhz but the rest are OK. I agree that single feeding makes things easier, but there still seems to be some interactions between elements, although I suppose not as bad.

Still waiting for condx to pick up to really try it, but seems to be working OK.

Just worked A25/G3CHT on 12M!!

CUL

David
----- Original Message -----
From: "Joe C" <jkcal@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, April 14, 2002 6:12 PM
Subject: Re: [hex-beam] More photo's

> David,
> Photos look great.!
> I am gonna take some pictures of mine now that it is up and will try and
> post them in my folder that you created.
> The antenna is working really well.
> I just need to do a little pruning to get the SWR down.
> Using seperate feeds sure makes it alot easier to get the SWR down on
> the individual bands.
> I am using an old heathkit HD-1481 remote antenna switch that is working
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> >

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> >However, I'd still say I prefer the single feed system for the better
> >performance on 15 and 10M.
> >
> >CUL
> >
> >David
> >----- Original Message -----
> >From: "Joe C" <jkcal@...>
> >To: <hex-beam@yahoogroups.com>
> >Sent: Sunday, April 14, 2002 1:51 AM
> >Subject: Re: [hex-beam] More photo's
> >
> >
> >>David,
> >>Are you using an actual 30 meter element or are you using the other
> >>bands with a tuner?
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654. Re: [hex-beam] Re: More photo's

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-14 21:15:50 UTC
From: David Douglass
Topic: 648 Message: 654

Thanks Doug and all OK.

Thankfully I have an antenna analysis here, which helps a little, so managed OK to find resonance, although I'm a little high on 17M due to changes with antenna height, but nothing to worry about.

I see VK9ML has started up, so there's another one for you guys to chase for a week or so. Good luck

David
----- Original Message -----
From: w6hb
To: hex-beam@yahoogroups.com
Sent: Sunday, April 14, 2002 8:13 PM
Subject: [hex-beam] Re: More photo's

Keep up the great HB (Home Brew) work Joe and David. As you seek
a lower VSWR, remember that the characteristic impedance of the Hex
is around 20 to 25 ohms. Don't confuse it's resonance for it's point
of lowest VSWR. If you have the MFJ-259 or similiar, you might want
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working
> just fine too.
> Did you use the stock formulas of 6160/f for Dr. and 6262/f for
Ref.?
> In my case, those numbers made all the elements a little too long.
> So if any others are homebrewing like you and I, I would adjust
those
> formulas to perhaps 6075-6100 for Dr. and try leaving the Reflector
> number at 6262.

> This should bring the resonant frequency down to where you want it.
> Will give you an update after the pruning is done.
> Joe AA5HP
>
>
> David Douglass wrote:
>
> >Hi Joe,
> >
> >No I'm only using the 20M element tuned down! With the old multi-
feed system
> >the antenna seemed to work a lot better on 30M, but then again,
there would
> >of been a lot more wire up there!
> >
> >However, I'd still say I prefer the single feed system for the
better
> >performance on 15 and 10M.
> >
> >CUL
> >
> >David
> >----- Original Message -----
> >From: "Joe C" <jkcal@p...>
> >To: <hex-beam@y...>
> >Sent: Sunday, April 14, 2002 1:51 AM
> >Subject: Re: [hex-beam] More photo's
> >
> >
> >>David,
> >>Are you using an actual 30 meter element or are you using the
other
> >>bands with a tuner?
> >>The spreaders for the 30 meter hex must be 13 feet long or so
right?
> >>Interested in what you are doing for 30 meters.
> >>Joe AA5HP
> >>
> >>
> >>David Douglass wrote:
> >>
> >>>Have just uploaded a couple more photo's showing the completed
MKII Hex,
> >>>into the VK2DPD folder.
> >>>
> >>>I have noticed 1 disadvantage of the single feed method, this
being the
> >>>decreased performance on 30M. I suppose this is due to having a
lot less
> >>>wire operating.

> >>>
> >>>Oh well!!
> >>>
> >>>Regards
> >>>
> >>>David
> >>>vk2dpd@q...
> >>>vk2dpd@b...
> >>>
> >>>
> >>>
> >>>
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[Non-text portions of this message have been removed]

655. VK9ML in 30 minutes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-15 14:43:39 UTC
From: Makoto Tanaka
Topic: 655 Message: 655

Hi,

I got VK9ML on 15m CW after 30 minutes call with 200watts.
It is the first day for them to come up and pile-up is booming.

BTW, following my article, JA3MHV posted his article after
intensive simulation and assembling his homebrew Hexbeam.
It is very intersting article. If I have a permission from the
author, I will briefly translate it for your interest.

73 de JR1NHD - Shin

[Non-text portions of this message have been removed]

656. Re: VK9ML in 30 minutes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-15 15:50:40 UTC
From: w4wb
Topic: 655 Message: 656

COngratulations Shin. Am sure we will all will be interested in
seeing JA3MHV's information.

Heading back to Huntsville soon and will join the hunt for the VK9ML!

73 de Barry - W4WB

--- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
> Hi,
>
> I got VK9ML on 15m CW after 30 minutes call with 200watts.
> It is the first day for them to come up and pile-up is booming.
>
> BTW, following my article, JA3MHV posted his article after
> intensive simulation and assembling his homebrew Hexbeam.
> It is very intersting article. If I have a permission from the
> author, I will briefly translate it for your interest.
>
> 73 de JR1NHD - Shin
>
>
> [Non-text portions of this message have been removed]

657. Re: [hex-beam] VK9ML in 30 minutes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-15 21:08:39 UTC
From: David Douglass
Topic: 655 Message: 657

Shin,

Well done, it's very good to hear one of us non-US guys working the DX. However, it's not much of a challenge when they are only in your back yard hihi.

Regards

David, VK2DPD
----- Original Message -----
From: Makoto Tanaka
To: hex-beam@yahoogroups.com
Sent: Monday, April 15, 2002 2:43 PM
Subject: [hex-beam] VK9ML in 30 minutes

Hi,

I got VK9ML on 15m CW after 30 minutes call with 200watts.
It is the first day for them to come up and pile-up is booming.

BTW, following my article, JA3MHV posted his article after
intensive simulation and assembling his homebrew Hexbeam.
It is very intersting article. If I have a permission from the
author, I will briefly translate it for your interest.

73 de JR1NHD - Shin

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[Non-text portions of this message have been removed]

658. I agree!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-15 21:48:35 UTC
From: Herbert Meiselman
Topic: 658 Message: 658

Yeh...I agree! No big deal to work VK9ML when they are within visual range (hi hi).

You should try to do it the California way: 10 microwatts long path!

Regards,

Herb K6HJM

PS: I tried this AM and "think" I got him...short path and an Ameritron 811H amp.

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

659. Re: [hex-beam] I agree!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-15 22:16:21 UTC
From: Makoto Tanaka
Topic: 658 Message: 659

Herb,

Yep, VK9ML is like VP6DI from California. He created the
world very fair, hi hi. Good dx.

73, JR1NHD Shin
----- Original Message -----
From: Herbert Meiselman
To: hex-beam@yahoogroups.com
Sent: Tuesday, April 16, 2002 6:48 AM
Subject: [hex-beam] I agree!

Yeh...I agree! No big deal to work VK9ML when they are within visual
range (hi hi).

You should try to do it the California way: 10 microwatts long path!

Regards,

Herb K6HJM

PS: I tried this AM and "think" I got him...short path and an Ameritron
811H amp.

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660. Re: I agree!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-16 04:29:07 UTC
From: w4wb
Topic: 658 Message: 660

Herb,
Why were you trying AM to work him? No wonder you are not sure if you worked VK9ML. He was on SSB. OK, just pulling your leg. I know you meant A.M., well at least I think you did. ;-)
73 de Barry - W4WB

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
PS: I tried this AM and "think" I got him...short path and an Ameritron 811H amp.

661. Re: [hex-beam] I agree!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-16 10:33:46 UTC
From: David Douglass
Topic: 658 Message: 661

Hi Shin,

I totally agree, those guys in the US have had it all too easy with PW0T, XR0X and the Guys from the various VP8 islands. What sort of tests are those for there Hex Beams!!

David, VK2DPD
----- Original Message -----
From: Makoto Tanaka
To: hex-beam@yahoogroups.com
Sent: Monday, April 15, 2002 10:16 PM
Subject: Re: [hex-beam] I agree!

Herb,

Yep, VK9ML is like VP6DI from California. He created the
world very fair, hi hi. Good dx.

73, JR1NHD Shin
----- Original Message -----
From: Herbert Meiselman
To: hex-beam@yahoogroups.com
Sent: Tuesday, April 16, 2002 6:48 AM
Subject: [hex-beam] I agree!

Yeh...I agree! No big deal to work VK9ML when they are within visual
range (hi hi).

You should try to do it the California way: 10 microwatts long path!

Regards,

Herb K6HJM

PS: I tried this AM and "think" I got him...short path and an Ameritron
811H amp.

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662. VK9ML

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-16 12:36:06 UTC
From: David Douglass
Topic: 662 Message: 662

OK guys, sorry to rub it in but even worked him on 160M tonight, for my first ever QSO on that band. OK so I wasn't using the Hex, but who cares!!

David, VK2DPD
vk2dpd@...
vk2dpd@...

663. Why me?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-16 22:16:54 UTC
From: Herbert Meiselman
Topic: 663 Message: 663

Dear All:

I am still unclear as to the reason for Barry's behavior toward me. I have almost stopped telling the truth about him, and am doing my best to refute the lies and mis-truths told by numerous evil hate mongers. Nevertheless, he still attacks me (AM versus A.M. in his latest message!).

Although I am a sensitive and sincere individual, I have been able to overcome his outrageous verbal attacks:

1) got VQ9GB (Chagos Island) this morning on 21.281 at 1611
2) got OH0JTU (Aland Island) this morning on 21.284 at 1616

Both on first call using the Hex-Beam. Also, both new ones for me!

SO MR. BARRY (aka Barry The Wise, Barry The Elder, Uncle Barry)..."sticks and stones will hurt my bones but words will never harm me".

73s

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

664. VK9ML

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-16 19:16:16 UTC
From: w6hb
Topic: 662 Message: 664

Too bad I haven't heard any LOCAL DX, not even 'ole Herb. Guess I'll have to be satisfied working David's neighbors with the Hex, 100 watts and one call. Oh well.....

73 - Doug - W6HB

665. VK9ML

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-16 19:07:35 UTC
From: w6hb
Topic: 662 Message: 665

Too bad I don't have any LOCAL DX to work. Guess I'll have to be satisfied working David's neighbors with the Hex, 100 watts and one call. Oh well.....

Doug - W6HB

666. Re: [hex-beam] VK9ML

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-17 11:17:34 UTC
From: David Douglass
Topic: 662 Message: 666

Doug,

When times are tough I'll take any DX, although with their obvious bias towards US stations, I'm surprised anyone else has managed a QSO. I would of thought you big guns wouldn't need any help??

CUL

David

----- Original Message -----
From: w6hb
To: hex-beam@yahoogroups.com
Sent: Tuesday, April 16, 2002 7:07 PM
Subject: [hex-beam] VK9ML

Too bad I don't have any LOCAL DX to work. Guess I'll have to be satisfied working David's neighbors with the Hex, 100 watts and one call. Oh well.....

Doug - W6HB

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667. Re: VK9ML

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-17 13:44:58 UTC
From: w4wb
Topic: 662 Message: 667

Seems like a FB bias to me David. ;-) Just worked the VK9ML on 20 m
SSB (1340Z). Took two calls. Nice signal although not very strong.
K is up to 5 at present. Good operator there.
73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Doug,
>
> When times are tough I'll take any DX, although with their obvious
bias towards US stations, I'm surprised anyone else has managed a
QSO. I would of thought you big guns wouldn't need any help??
>
> CUL
>
> David

668. Re: Why me?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-16 23:01:09 UTC
From: w4wb
Topic: 663 Message: 668

Congratulations on HEXing some FB DX Herb!
73 de Barry - W4WB

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
<snip>
> 1) got VQ9GB (Chagos Island) this morning on 21.281 at 1611
> 2) got OH0JTU (Aland Island) this morning on 21.284 at 1616
>
> Both on first call using the Hex-Beam. Also, both new ones for me!

<snip>
> 73s
>
> Herb K6HJM
>

669. Re: [hex-beam] Re: VK9ML

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-17 15:04:48 UTC
From: David Douglass
Topic: 662 Message: 669

Hi Barry and all,

Yep, it gets a bit frustrating when the Dx is working either JA, NA or EU all the time, but I can see their point, as there are only a handful of people over here who bother seriously with DX. Can't complain too much as we usually get our turn.

Just worked VK9ML on 30M CW, to complete all bands from 16-10 inclusive! "Now I wonder if I can knock up a 6M Hex in time???"

73's to all in the crowded hemisphere

David
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Wednesday, April 17, 2002 1:44 PM
Subject: [hex-beam] Re: VK9ML

Seems like a FB bias to me David. ;-) Just worked the VK9ML on 20 m
SSB (1340Z). Took two calls. Nice signal although not very strong.
K is up to 5 at present. Good operator there.
73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Doug,
>
> When times are tough I'll take any DX, although with their obvious
bias towards US stations, I'm surprised anyone else has managed a
QSO. I would of thought you big guns wouldn't need any help??
>
> CUL
>
> David

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670. Homebrew Photos Posted

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-18 03:04:13 UTC
From: Joe Caluda
Topic: 670 Message: 670

Thanks to David, VK2DPD, photos of my Homebrew 5 element Hex Beam in its operating position have been added to my folder.
Each band is fed seperately to a Heathkit Remote Antenna Switch seen directly under the main hub.
Antenna is working great except resonating a bit lower in the band than planned.
WIll attempt to do a bit of pruning over the weekend and see what happens to the SWR.
Thanks David posting my pictures and the homebrew advice and information.
Joe AA5HP

671. AA5HP Homebrew Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-17 15:42:00 UTC
From: David Douglass
Topic: 671 Message: 671

Hi gang,

I've uploaded 3 more pic's into Joe's folder, showing the completed 5 bander, prior to tuning. I think these clearly show Joe's superior construction skills, and it all makes mine look a bit shabby??

Good going Joe and hope the tuning goes OK.

David
vk2dpd@...
vk2dpd@...

672. David's Shabby (?) Homebrew Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-18 13:01:03 UTC
From: w4wb
Topic: 671 Message: 672

Hi David,

Does appear that Joe has done a FB job. Nevertheless, your Hex has demonstrated great performance and shows that this antenna form can be realized with some robustness. By this I mean that the Hex-Beam concept isn't a "high-Q" tuning challenge, but is tolerant. This is good news for everyone in that it implies good long-term operation with performance maintained.

Now if the MUF will rise again, all will be good with the world.

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi gang,
>
> I've uploaded 3 more pic's into Joe's folder, showing the completed
5
> bander, prior to tuning. I think these clearly show Joe's superior
> construction skills, and it all makes mine look a bit shabby??
>
> Good going Joe and hope the tuning goes OK.
>
> David
> vk2dpd@q...

673. Re: [hex-beam] David's Shabby (?) Homebrew Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-18 14:21:11 UTC
From: Joe C
Topic: 671 Message: 673

I have to add that David's Hex is one of the main the reasons my antenna
looks and operates like it does.
My design and building concepts are the result of ideas gotten from
EI7BA, Traffie Technology, and especially David, VK2DPD.
Thanks to David's experience and ideas on construction and tuning I was
able to put together a reasonably well-built and very good, functioning
Multi-Band HEX Beam.
I am sure that someone will see the pictures of my antenna and take the
construction even farther.
Thanks to all the nice reports on my Homebrew Hex but the construction
ideas were a mix of inspiration from many sources.
Now to get the SWR just a tiny bit lower in the protion of the band that
I want to operate in.
Wish me luck with the pruning.
Joe AA5HP

w4wb wrote:

> Hi David,
>
> Does appear that Joe has done a FB job. Nevertheless, your Hex has
> demonstrated great performance and shows that this antenna form can
> be realized with some robustness. By this I mean that the Hex-Beam
> concept isn't a "high-Q" tuning challenge, but is tolerant. This is
> good news for everyone in that it implies good long-term operation
> with performance maintained.
>
> Now if the MUF will rise again, all will be good with the world.
>
> 73 de Barry - W4WB
>
>
> --- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> > Hi gang,
> >
> > I've uploaded 3 more pic's into Joe's folder, showing the completed
> 5
> > bander, prior to tuning. I think these clearly show Joe's superior
> > construction skills, and it all makes mine look a bit shabby??
> >
> > Good going Joe and hope the tuning goes OK.
> >
> > David
> > vk2dpd@q...
>

>
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674. Home page image

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-19 09:41:40 UTC
From: w4wb
Topic: 674 Message: 674

The home page image showing the various installations is missing. This is because the image was stored at my w4wb.com site and that the ISP vanished a few days ago. Guess they went out of business; no trace of them. My domain should be active with the new ISP in a day or so. At that time, the image will reappear.

73 de Barry - W4WB
Moderator

675. Silly Idea?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-20 06:47:10 UTC
From: jr1nhd_shin
Topic: 675 Message: 675

Hi Hexguys,

Hunting for my backyard VK9ML is in very good shape. Missing are 20m SSB/RTTY and 10m RTTY among HX5-Bi coverage.

BTW, is it an idea to make a Hex T-Shirt to show mutual friendship among this group? Does anyone volunteer to design and order in NA? (Such cost should be higher in JA, hi). Those who get together in Dayton should recognize each other.

I have another Hexuser in JA who plans to install during first week of May. My article in Five Nine have impressed lots of JAs, which pleased me as well as Mike T.?

73 de JR1NHD Shin

676. Re: Silly Idea?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-20 07:24:30 UTC
From: w6hb
Topic: 675 Message: 676

The shirt sounds like a great idea, Shin. I would be willing to interface with a local shop that has done silkscreening for my business and the United Radio Amateur Club (K6AA). I won't be able to make Dayton this year and am not sure if we could get something in time. Maybe Barry has a contact through his business associations that could do better or faster. Condider this posting as a FORMAL REQUEST FOR ART WORK IDEAS from all HEXNUTS. An existing LOGO possibility is that used by Traffie is he would approve it. Maybe we could have little stick figures with HEXNUT heads. All ideas are welcomed.

73 - Doug - W6HB

--- In hex-beam@y..., "jr1nhd_shin" <jr1nhd@m...> wrote:
> Hi Hexguys,
>
> Hunting for my backyard VK9ML is in very good shape. Missing
> are 20m SSB/RTTY and 10m RTTY among HX5-Bi coverage.
>
> BTW, is it an idea to make a Hex T-Shirt to show mutual
> friendship among this group? Does anyone volunteer to
> design and order in NA? (Such cost should be higher in
> JA, hi). Those who get together in Dayton should recognize
> each other.
>
> I have another Hexuser in JA who plans to install during
> first week of May. My article in Five Nine have impressed
> lots of JAs, which pleased me as well as Mike T.?
>
> 73 de JR1NHD Shin

677. Old Sol is Hexing Us

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-21 03:38:41 UTC
From: w4wb
Topic: 677 Message: 677

These solar storms and ejections have really kicked the A value up and the S number down. Even the FB Hex-Beam and a KW can not make much headway.

I have enjoyed some fun QSOs. Yesterday morning on 20 m, the only guy I could hear was in Bombay. He was a 55 to 56 and I was 59+ he said. Clearly was a ducting path. He faded away about 10-15 minutes later. All of a sudden, ZD8Z jumped out of the noise on 10 m about 2100Z at 20 over 9! Easy contact. I worked 5N6NDP on 20 m yesterday and 15 m today. Again, he was just one of a few stations I could hear. The only good thing about the present conditions is that we can actually experience some interesting propagation paths. Hope it all clears soon so that I can make some more VK9ML band/modes contacts. FWIW, VK9ML announced that they will concentrate on the eastern part of the US and Africa when the conditions improve. Guess they have worked every possible VK, ZL, and JA by now with us all blocked out. :-)

678. Re: [hex-beam] Old Sol is Hexing Us

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-21 04:19:45 UTC
From: David Douglass
Topic: 677 Message: 678

Barry,

I think the reason they have been working so many JA, VK and ZL stations is that they need some intellectually stimulating QSO's after working all those US stations.

Regards

David, VK2DPD
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Sunday, April 21, 2002 3:38 AM
Subject: [hex-beam] Old Sol is Hexing Us

These solar storms and ejections have really kicked the A value up and the S number down. Even the FB Hex-Beam and a KW can not make much headway.

I have enjoyed some fun QSOs. Yesterday morning on 20 m, the only guy I could hear was in Bombay. He was a 55 to 56 and I was 59+ he said. Clearly was a ducting path. He faded away about 10-15 minutes later. All of a sudden, ZD8Z jumped out of the noise on 10 m about 2100Z at 20 over 9! Easy contact. I worked 5N6NDP on 20 m yesterday and 15 m today. Again, he was just one of a few stations I could hear. The only good thing about the present conditions is that we can actually experience some interesting propagation paths. Hope it all clears soon so that I can make some more VK9ML band/modes contacts. FWIW, VK9ML announced that they will concentrate on the eastern part of the US and Africa when the conditions improve. Guess they have worked every possible VK, ZL, and JA by now with us all blocked out. :-)

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679. OK, so it's not a Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-21 04:36:33 UTC
From: David Douglass
Topic: 679 Message: 679

Hi all,

I know this is the wrong place for this, but I realise that a few of you guy's don't have any antenna for the lower bands.

To supplement the 5 bands on the Hex I've just made a 80/40/30 vertical based around one of those 10M DK9SQ telescopic poles. Basically the antenna is a 1/4wave vertical on all bands. 40/30 are both full size, whilst 80 is centre loaded.

I have uploaded a "very primitive diagram" into the photo section in my folder, showing the basic layout. The antenna consists of 3 sections as follows

Sec 1. 30M 1/4wave vertical.
Sec 2. 80M loading coil
Sec 3. 40 extension whip.

For 30M all sections are disconnected from each other, basically giving a full size vertical. On 40M Sec 1 and 3 are connected by a jumper cable (cutting out the 80M coil). This again gives a full size vertical. On 80M all sections are connected in series to give the centre loaded 1/4wave vertical.

The short counterpoise is one I've been using on my 40M vertical and discussed in length by Les Moxon, G6XN in "HF Antennas For All Locations".

So there you go, apologies for the post, but thought some may be interested, and if anyone wants any further details, e-mail me direct to avoid clogging the reflector.

David. VK2DPD
vk2dpd@...
vk2dpd@...

680. T-SHIRTS

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-21 04:37:41 UTC
From: David Douglass
Topic: 680 Message: 680

Good idea, but I think there a few of us guys who would prefer to homebrew our own!!!!!!

David
vk2dpd@...
vk2dpd@...

681. Re: Old Sol is Hexing Us

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-21 05:28:14 UTC
From: w4wb
Topic: 677 Message: 681

Ah ha! So they are using 56, 43, etc. rather than just 59 now. ;-)

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Barry,
>
> I think the reason they have been working so many JA, VK and ZL
stations is that they need some intellectually stimulating QSO's
after working all those US stations.
>
> Regards
>
> David, VK2DPD

682. Re: OK, so it's not a Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-21 05:30:54 UTC
From: w4wb
Topic: 679 Message: 682

Hi David,

Good topic to enhance the HEXing experience. Want to provide more details?

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi all,
>
> I know this is the wrong place for this, but I realise that a few of you
> guy's don't have any antenna for the lower bands.
>
> To supplement the 5 bands on the Hex I've just made a 80/40/30 vertical
> based around one of those 10M DK9SQ telescopic poles. Basically the antenna
> is a 1/4wave vertical on all bands. 40/30 are both full size, whilst 80 is
> centre loaded.
>
> I have uploaded a "very primitive diagram" into the photo section in my
> folder, showing the basic layout. The antenna consists of 3 sections as
> follows
>
> Sec 1. 30M 1/4wave vertical.
> Sec 2. 80M loading coil
> Sec 3. 40 extension whip.
>
> For 30M all sections are disconnected from each other, basically giving a
> full size vertical. On 40M Sec 1 and 3 are connected by a jumper cable
> (cutting out the 80M coil). This again gives a full size vertical. On 80M
> all sections are connected in series to give the centre loaded 1/4wave
> vertical.
>
> The short counterpoise is one I've been using on my 40M vertical and
> discussed in length by Les Moxon, G6XN in "HF Antennas For All Locations".
>

> So there you go, apologies for the post, but thought some may be interested,
> and if anyone wants any further details, e-mail me direct to avoid clogging
> the reflector.
>
> David. VK2DPD
> vk2dpd@q...
> vk2dpd@b...

683. Re: [hex-beam] Re: Old Sol is Hexing Us

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-21 07:35:19 UTC
From: David Douglass
Topic: 677 Message: 683

Hi Barry, and apologies for the little dig, but couldn't help myself.

Good going on working the ZD8!! I still need ZD8 and ZD9 here, and that is about the most tricky path there is for us from here.

I'll give you a few more details on the antenna once I've tried it out. If you've looked at the picture you will see that, band changing is a problem as you need to take the antenna down to swap over the jumper leads, although its a simple task when the mast is light-weight fibreglass.

I'm expecting good performance on 40/30, but will see how it goes on 80M, as I've had some disastrous efforts on that band in the past.

Anyway, hope the conditions pick up for you and see you in the pile-ups for KH1 in a week or so.

Regards

David
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Sunday, April 21, 2002 5:28 AM
Subject: [hex-beam] Re: Old Sol is Hexing Us

Ah ha! So they are using 56, 43, etc. rather than just 59 now. ;-)

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Barry,
>
> I think the reason they have been working so many JA, VK and ZL
stations is that they need some intellectually stimulating QSO's
after working all those US stations.
>
> Regards
>
> David, VK2DPD

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[Non-text portions of this message have been removed]

684. Re: [hex-beam] OK, so it's not a Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-21 08:55:14 UTC
From: Nigel Gunn
Topic: 679 Message: 684

Use the tower as a verticle, the hex-beam makes a pretrty top hat to lower the resonant frequenct.

de Nigel G8IFF

----- Original Message ----- > I know this is the wrong place for this, but I realise that a few of you
> guy's don't have any antenna for the lower bands.
>
>

685. Re: [hex-beam] OK, so it's not a Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-21 09:36:52 UTC
From: Nigel Gunn
Topic: 679 Message: 685

What's wrong with these fingers this morning? Should have read:
Use the tower as a vertical, the hex-beam makes a pretty top hat to lower
the resonant frequency.

----- Original Message -----
From: "Nigel Gunn" <nigel@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, April 21, 2002 9:55 AM
Subject: Re: [hex-beam] OK, so it's not a Hex

> Use the tower as a verticle, the hex-beam makes a pretrty top hat to lower
> the resonant frequenct.
>
> de Nigel G8IFF
>
> ----- Original Message ----- > I know this is the wrong place for this,
but
> I realise that a few of you
> > guy's don't have any antenna for the lower bands.
> >
> >
>
>
>
> To unsubscribe from this group, send an email to:
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>
>

686. Re: [hex-beam] OK, so it's not a Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-21 10:11:38 UTC
From: David Douglass
Topic: 679 Message: 686

Hi Nigel,

Wish that was an option but the mast here sits on the metal shack roof and
is only about 22foot long.

Regards

David
----- Original Message -----
From: "Nigel Gunn" <nigel@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, April 21, 2002 9:36 AM
Subject: Re: [hex-beam] OK, so it's not a Hex

> What's wrong with these fingers this morning? Should have read:
> Use the tower as a vertical, the hex-beam makes a pretty top hat to lower
> the resonant frequency.
>
> ----- Original Message -----
> From: "Nigel Gunn" <nigel@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Sunday, April 21, 2002 9:55 AM
> Subject: Re: [hex-beam] OK, so it's not a Hex
>
>
> > Use the tower as a verticle, the hex-beam makes a pretrty top hat to
lower
> > the resonant frequenct.
> >
> > de Nigel G8IFF
> >
> > ----- Original Message ----- > I know this is the wrong place for this,
> but
> > I realise that a few of you
> > > guy's don't have any antenna for the lower bands.
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687. 30 meter hexing etc...

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-21 14:54:46 UTC
From: Joe Caluda
Topic: 687 Message: 687

David,
I am curious when you load you 20 meter hex on 30 meters, what is the SWR like?
does it show any directivity, FB or gain?
I have not loaded mine on 30 but will soon.
Also an interesting discovery of mine.
I was using the 5-bander hex with a TS-820. A couple of days ago I hooked up a
kenwood TS-570 and noticed that the SWR meter on the 570 showed a much lower SWR
than did the 820.
Any thoughts on this. According to my 570 the SWR is 1.5:1 and lower.
According to the 820 with an outboard meter, the SWR was 2:1.
I wonder how accurate the SWR meter on the 570 is?

Look forward to the feedback .
Joe AA5HP

David Douglass wrote:

> Hi Nigel,
>
> Wish that was an option but the mast here sits on the metal shack roof and
> is only about 22foot long.
>
> Regards
>
> David
> ----- Original Message -----
> From: "Nigel Gunn" <nigel@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Sunday, April 21, 2002 9:36 AM
> Subject: Re: [hex-beam] OK, so it's not a Hex
>
> > What's wrong with these fingers this morning? Should have read:
> > Use the tower as a vertical, the hex-beam makes a pretty top hat to lower
> > the resonant frequency.
> >
> > ----- Original Message -----
> > From: "Nigel Gunn" <nigel@...>
> > To: <hex-beam@yahoogroups.com>
> > Sent: Sunday, April 21, 2002 9:55 AM
> > Subject: Re: [hex-beam] OK, so it's not a Hex
> >
> >
> > > Use the tower as a verticle, the hex-beam makes a pretrty top hat to
> lower
> > > the resonant frequenct.
> > >

> > > de Nigel G8IFF
> > >
> > > ----- Original Message ----- > I know this is the wrong place for this,
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688. Re: [hex-beam] 30 meter hexing etc...

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-21 20:28:56 UTC
From: David Douglass
Topic: 687 Message: 688

Hi Joe,

Currently the SWR on the 20M element when fed on 30M is 8:1. I need an external tuner to tune this down as the internal one in the rig won't handle that.

I can't remember what the reading was like with the multi-feed system, but performance was much better, which I put down to have a lot more wire active at any one time.

This is measured on my Autek Analyser, and I get totally different readings ion the rig and external SWR Bridge.

Hope this helps.

CUL

David
----- Original Message -----
From: Joe Caluda
To: hex-beam@yahoogroups.com
Sent: Sunday, April 21, 2002 2:54 PM
Subject: [hex-beam] 30 meter hexing etc...

David,
I am curious when you load you 20 meter hex on 30 meters, what is the SWR like?
does it show any directivity, FB or gain?
I have not loaded mine on 30 but will soon.
Also an interesting discovery of mine.
I was using the 5-bander hex with a TS-820. A couple of days ago I hooked up a
kenwood TS-570 and noticed that the SWR meter on the 570 showed a much lower SWR
than did the 820.
Any thoughts on this. According to my 570 the SWR is 1.5:1 and lower.
According to the 820 with an outboard meter, the SWR was 2:1.
I wonder how accurate the SWR meter on the 570 is?

Look forward to the feedback .
Joe AA5HP

David Douglass wrote:

> Hi Nigel,
>
> Wish that was an option but the mast here sits on the metal shack roof and
> is only about 22foot long.
>
> Regards
>
> David

> ----- Original Message -----
> From: "Nigel Gunn" <nigel@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Sunday, April 21, 2002 9:36 AM
> Subject: Re: [hex-beam] OK, so it's not a Hex
>
> > What's wrong with these fingers this morning? Should have read:
> > Use the tower as a vertical, the hex-beam makes a pretty top hat to lower
> > the resonant frequency.
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> > ----- Original Message -----
> > From: "Nigel Gunn" <nigel@...>
> > To: <hex-beam@yahoogroups.com>
> > Sent: Sunday, April 21, 2002 9:55 AM
> > Subject: Re: [hex-beam] OK, so it's not a Hex
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> > > Use the tower as a verticle, the hex-beam makes a pretrty top hat to
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[Non-text portions of this message have been removed]

689. Would You Be an User Reference for the HEX-BEAM?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-22 23:56:07 UTC
From: w4wb
Topic: 689 Message: 689

Hi Folks,

Mike Traffie and his crew will be showing the Hex-Beam at the Dayton Hamvention next month. Several of us have asked Mike if it might be useful to have a list of Hex-Beam owners that people can contact about the user's thoughts on the Hex-Beam. I recall that I asked Mike for a couple of references before I would buy it myself. Best part about doing that was I made two new and fine friends in the process.

If you would be willing to have potential HEX-NUTS call/email/write you to discuss the Hex-Beam, then kindly send me the following information for the list to be handed out in Dayton.
1. Name
2. Call Sign
3. Email
4. Phone number (and times when you will take calls -- give time zone pse) [optional]
5. QTH (optional)
6. Type Hex-Beam you have, e.g., HX-5Bi

Please send your information to me by email at barry @ w4wb.com (pse leave out the spaces however) or to the email address in this posting.

73 de Barry - W4WB

690. Agree with Barry

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-23 00:20:11 UTC
From: Herbert Meiselman
Topic: 690 Message: 690

Hello to all:

Well, this could be a momentous day! I actually and completely agree with Barry (W4WB). I think it would be a great idea to have Mike Traffie be able to provide our names as current HB users. Makes sense to me. Probably because I seem to have gained two things as a result of buying my HB: 1) a great antenna that works well at my QTH in spite of space, height, mountains, etc limitations; 2) a new group of acquaintances (dare I say friends?) who share an interest in HF, DX, etc.

I clearly recall making a few phone calls prior to buying my HB, and I think others might like the same option prior to getting theirs.

I strongly encourage you to sent the information to Barry. This time I am serious...no jokes!

73s to all,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

691. Re: [hex-beam] Would You Be an User Reference for the HEX-BEAM?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-24 02:10:32 UTC
From: Buzz & Quinta
Topic: 689 Message: 691

Barry,

Sounds like a great idea! Wish I was going to be able to make it to Dayton this year. That is where I SAW my
first HexBeam last year.

1. Buzz Loeschman
2. N5FTR
3. n5ftr@...
4.
5. Angleton, Texas (40 miles due south of Houston)
6. HX-5Bi

Y'all have a ball up north.

73,
Buzz
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Monday, April 22, 2002 6:56 PM
Subject: [hex-beam] Would You Be an User Reference for the HEX-BEAM?

Hi Folks,

Mike Traffie and his crew will be showing the Hex-Beam at the Dayton Hamvention next month. Several of us have asked Mike if it might be useful to have a list of Hex-Beam owners that people can contact about the user's thoughts on the Hex-Beam. I recall that I asked Mike for a couple of references before I would buy it myself. Best part about doing that was I made two new and fine friends in the process.

If you would be willing to have potential HEX-NUTS call/email/write you to discuss the Hex-Beam, then kindly send me the following information for the list to be handed out in Dayton.
1. Name
2. Call Sign
3. Email
4. Phone number (and times when you will take calls -- give time zone pse) [optional]
5. QTH (optional)
6. Type Hex-Beam you have, e.g., HX-5Bi

Please send your information to me by email at barry @ w4wb.com (pse leave out the spaces however) or to the email address in this posting.

73 de Barry - W4WB

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[Non-text portions of this message have been removed]

692. Spring Maintenance #151 HX-5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-23 02:34:02 UTC
From: k0fuz
Topic: 692 Message: 692

I checked the tighness of the bolts and nuts associated with the tower and antenna assembly this past weekend. I found things in pretty good shape with the exception of the allen set screws on the upper and lower hub. They had worked loose. So don't forget to put your allen wrench in your back pocket when you do your spring tuneup.

693. multiband

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-26 13:21:20 UTC
From: lz2be
Topic: 693 Message: 693

Hello friends,

my name is Boian Petkov, LZ2BE since 1981. I would like to install a multiband antenna on the roof of my house and to use existing TV rotator. It looks that HX5B (20-10m) is the best choice for me, according to all I red in Internet.

I would like if somebody can help me with the right dimensions of this antenna or formulas to calculate it.

Thanks in advance!

73 de Bob, LZ2BE
lz2be@...
petkovb@...

694. Re: multiband

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-27 13:53:50 UTC
From: w4wb
Topic: 693 Message: 694

Hi Bob,

Please look at Files > Publications > Communication Quarterly to read the originial paper by Mike Traffie on Hex-Beam design. Good starting point. Look at past posts and learn what several others have done.

Feel free to ask specific questions.

GL es 73 de Barr - W4WB

--- In hex-beam@y..., "lz2be" <lz2be@y...> wrote:
> Hello friends,
>
> my name is Boian Petkov, LZ2BE since 1981. I would like to install
a
> multiband antenna on the roof of my house and to use existing TV
> rotator. It looks that HX5B (20-10m) is the best choice for me,
> according to all I red in Internet.
>
> I would like if somebody can help me with the right dimensions of
> this antenna or formulas to calculate it.
>
> Thanks in advance!
>
> 73 de Bob, LZ2BE
> lz2be@y...
> petkovb@a...

695. K1B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-28 13:50:28 UTC
From: David Douglass
Topic: 695 Message: 695

OK, I suppose I'll have to be the one to start the ball rolling. Work KH1 tonight for my first new country on the MKII Hex. It took 2 hour's but what the hell, it's the weekend and there wasn't much on TV.

I'm hoping we get a break with the DX during the forthcoming World Cup, as I wouldn't like to miss anything on the bands.

Regards all,

David, VK2DPD
vk2dpd@...
vk2dpd@...

696. Re: K1B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-28 23:52:30 UTC
From: tomac14
Topic: 695 Message: 696

Hi David:

OK, that's 2 Hexbeams that got through the pile-up, yours and Mine.

I just worked K1B on Baker Island (KH1)on 21.295 MHz

Cheers and 73,

Tom, N0YD "Yankee Doodle"

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> OK, I suppose I'll have to be the one to start the ball rolling.
Work KH1
> tonight for my first new country on the MKII Hex. It took 2 hour's
but what
> the hell, it's the weekend and there wasn't much on TV.
>
> I'm hoping we get a break with the DX during the forthcoming World
Cup, as I
> wouldn't like to miss anything on the bands.
>
> Regards all,
>
> David, VK2DPD
> vk2dpd@q...
> vk2dpd@b...

697. K1B - Baker

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-29 02:46:59 UTC
From: w6hb
Topic: 697 Message: 697

Good show David & Tom. I just got him also on 15 with 100 watts and 3 minutes calling.

73 - Doug - W6HB

698. Re: Using Hex as top hat loading...

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-29 03:10:59 UTC
From: n6tz
Topic: 679 Message: 698

A week or so ago, there was a suggestion of using the mast and hex as a vertical antenna with the Hex as a top capacity hat. This would work fine but two common problems must be considered.

First, the reflectors on the Traffie Hex are not common to the mast. In other words, they are floating. I discussed this with Mike Traffie and he did not know if it would hinder the normal operation of the Hex if one tied all the center points of the reflectors together and tied them to the aluminun spreader holding plate. As the Hex is constructed presently, the reflectors offer no top loading.

Second, Many of the Hex users are putting a coax choke or isolation ferrite rings at the point just where the coax meets the Hex. This will offer some reactance to the current coming up the coax when the mast is used as a vertical. The lower the band, the less reactance these two forms of isolation will have. This limits the amount of top loading the driven element offers.

Something to think about.

I will be shunt feeding my mast with the Hex on it, and will complete an appraisal of the effects of tying the reflectors together with a tracer wire going from lug to lug and down to the aluminum plate. As far as the coax isolation, well, we can only do what we can do. My installation already has about 1,200 feet of ground radial wires coming to the bottom of where the mast will be. I will feed the mast with a slope wire at the 30 foot mark and from a tuner located about 15 feet from the base of the mast. The metal aircraft cable guy wires will be broken with medium size egg insulators. My mast is a 50 foot version with extra overlap, so the total height is about 39 feet.

Hal, N6TZ

699. Me too!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-29 04:06:27 UTC
From: Meiselman
Topic: 699 Message: 699

Yep...old Herb in Altadena, California worked K1B with the HB. Did it about 3 hours ago at 17:30 PDST. Pretty neat..was on my third call at 5 kHz above the 21.295. Damn...the HB really works great!

Now all we need to do is to help Mike Traffie sell a few more so that we (the current users) are assured of continued support, parts, love, attention, respect, etc.....

73s,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

700. Re: [hex-beam] Re: Using Hex as top hat loading...

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-29 10:36:28 UTC
From: David Douglass
Topic: 679 Message: 700

Hal,

Good going and hope the Hex works OK as part of the "vertical arrangement".

Following from my last, I have redesigned my vertical with a big loading coil at the bottom with taps for 80m Phone and CW and one for 160M. On 40 I bypass the coil and have a full size 1/4wave vertical, and I'm going to set up a system where I can put a capacitor in series in the 40m element to give me 30M.

The base loading will not be as good as the old centre loading, but saves having to take the antenna down everytime I change bands.

At least it works on 40M as I've just worked K1B!!

Then again I wish I had a real tower I could shunt feed!!!

Regards

David
----- Original Message -----
From: n6tz
To: hex-beam@yahoogroups.com
Sent: Monday, April 29, 2002 3:10 AM
Subject: [hex-beam] Re: Using Hex as top hat loading...

A week or so ago, there was a suggestion of using the mast and hex as a vertical antenna with the Hex as a top capacity hat. This would work fine but two common problems must be considered.

First, the reflectors on the Traffie Hex are not common to the mast. In other words, they are floating. I discussed this with Mike Traffie and he did not know if it would hinder the normal operation of the Hex if one tied all the center points of the reflectors together and tied them to the aluminun spreader holding plate. As the Hex is constructed presently, the reflectors offer no top loading.

Second, Many of the Hex users are putting a coax choke or isolation ferrite rings at the point just where the coax meets the Hex. This will offer some reactance to the current coming up the coax when the mast is used as a vertical. The lower the band, the less reactance these two forms of isolation will have. This limits the amount of top loading the driven element offers.

Something to think about.

I will be shunt feeding my mast with the Hex on it, and will complete an appraisal of the effects of tying the reflectors together with a tracer wire going from lug to lug and down to the aluminum plate. As

far as the coax isolation, well, we can only do what we can do.
My installation already has about 1,200 feet of ground radial wires coming to the bottom of where the mast will be. I will feed the mast with a slope wire at the 30 foot mark and from a tuner located about 15 feet from the base of the mast. The metal aircraft cable guy wires will be broken with medium size egg insulators. My mast is a 50 foot version with extra overlap, so the total height is about 39 feet.

Hal, N6TZ

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[Non-text portions of this message have been removed]

701. Re: [hex-beam] Me too!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-29 23:30:26 UTC
From: humberto gonzalez
Topic: 699 Message: 701

Herb, I thing the problem is the price, in my case is dificult expend that money in an antenna, for that reason i making a homebrew hex. regards Humberto --- Meiselman escribi?: Yep...old Herb in Altadena, California worked K1B with the HB. Did it about 3 hours ago at 17:30 PDST. Pretty neat..was on my third call at 5 kHz above the 21.295. Damn...the HB really works great!

Now all we need to do is to help Mike Traffie sell a few more so that we (the current users) are assured of continued support, parts, love, attention, respect, etc.....

73s,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

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702. K1B - Embarrassment & Shame

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-30 04:11:30 UTC
From: w4wb
Topic: 702 Message: 702

How hard it is to confess that I just worked K1B on 15 m SSB in under 30 seconds and two calls. To my embarrassment and shame, I was lazy and tried him from the house rather than driving down to the office where the Hex-Beam and big station are located. I used a FT-100D and the Titan vertical.

For penance, I will try to contact K1B using a FT-817 and a Miracle Whip (or if I get too frustrated with the Miracle Whip, I will use a 200 W light bulb for the antenna). As strong as K1B was tonight, I figure it might take a few more than two calls, but still doable. :-)

Actually, I bet that the FT-817 with our One BIG Punch speech processor hooked to the Hex-Beam can work K1B with ease.

73 de Barry - W4WB

p.s. I wasn't silly enough to spend $130 on the Miracle Whip, it is a loaner from a friend that did buy it. :-) I bought the light bulb.

703. Miracle Whip

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-30 10:59:40 UTC
From: David Douglass
Topic: 703 Message: 703

Hi Barry,

America must be the land of opportunity if a guy can make a living making/selling Miracle Whip's for $130US a pop - checked out the web-site, and what a 'pile of tripe'.

If your going to use a light bulb, I would recommend a car headlight, as they would be directional due to the reflector at the back!

Regards

David, VK2DPD
vk2dpd@...
vk2dpd@...

704. Re: Miracle Whip

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-30 13:12:35 UTC
From: w4wb
Topic: 703 Message: 704

Hi David,

Oh, how right you are except the antenna comes from Canada. Believe it or not, QST published an article on this "antenna" last year. I called the editor and asked if they missed the April issue. :-) Good grief, they said they backed up his claims in the ARRL lab. Funny thing is that all he said is that you could work DX with no hard data.

Hmmm.... never tried a headlight. But then I would need a rotor. :-)

Oh yes, in England they (ML&S) are selling the Miracle Whip for £130!

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi Barry,
>
> America must be the land of opportunity if a guy can make a living
> making/selling Miracle Whip's for $130US a pop - checked out the web-site,
> and what a 'pile of tripe'.
>
> If your going to use a light bulb, I would recommend a car headlight, as
> they would be directional due to the reflector at the back!
>
> Regards
>
> David, VK2DPD
> vk2dpd@q...

705. Re: [hex-beam] Re: Miracle Whip

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-30 13:28:26 UTC
From: David Douglass
Topic: 703 Message: 705

Barry,

Apologies for the US/Canada mixed-up. If I'd known it was a Canadian design I wouldn't of been so harsh - afterall, they are our partners in the Commonwealth.

When I left England 130pounds would buy you about 70-80 pints of beer - a much wiser purchase I think!!

CUL

David

PS Worked K1B on 80M SSB on my home-made Miracle Whip!!
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Tuesday, April 30, 2002 1:12 PM
Subject: [hex-beam] Re: Miracle Whip

Hi David,

Oh, how right you are except the antenna comes from Canada. Believe it or not, QST published an article on this "antenna" last year. I called the editor and asked if they missed the April issue. :-) Good grief, they said they backed up his claims in the ARRL lab. Funny thing is that all he said is that you could work DX with no hard data.

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> If your going to use a light bulb, I would recommend a car headlight, as
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> Regards

>
> David, VK2DPD
> vk2dpd@q...

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[Non-text portions of this message have been removed]

706. New Guy to try a homebrew

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-30 18:17:21 UTC
From: bigjoe60477
Topic: 706 Message: 706

Can someone please tell me the starting dimensions of the center post? Like the distance from the hub to the 10meter, 12, 15, and 20 meters connections. And want you guys say 6262 or 6270 formula can you please explain that to.
Thanks
KB9WFI

707. Miracle Whip?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-04-30 23:43:49 UTC
From: Herbert Meiselman
Topic: 707 Message: 707

Dear All:

I can only assume that the USA folks remember the old TV and print ads for "Miracle Whip" and are sickened by the thought. This product, made by Kraft Foods, was a low-cost (well, sort of low-cost) substitute for real mayonnaise. The ads and recipes suggested you use it in several ways, mostly to add flavor (?) to such items as Jello, tuna salad, cottage cheese, etc, etc. I grew up with the stuff, but gave it up when I discovered that salad was more than a wedge of iceberg lettuce...OK, for those of you not familiar with this delight, iceberg lettuce is like cabbage and usually served cut side up and covered with a thick dressing made from..you guessed it...Miracle Whip!

Worked Reunion Island on Sunday long path...the HB really has a nice F/B ratio.

NOTE: on Thursday morning, May 2, I will be heading for Barrow, Alaska to do so work with whale blood. A ham in the area (KA1NVZ) has agreed to let me drop by his QTH and try out some DX from north Alaska. Hopefully I can catch some of you, even without the benefit of a HB.

Regards and 73s,

Herb K6HJM

PS: auto headlight since it has a reflector...why not a bare bulb so it acts as a vertical? an isotropic radiator?

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

708. Lightbulb antennas considered harmful. Was Re: Miracle Whip

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-01 00:40:40 UTC
From: bbadger
Topic: 703 Message: 708

Warning: using headlights and other lightbulbs as antennas can result in significant non-harmonic radiation in the 600nm band, which can cause interference to other legitimate users of that band, some of which include airplanes, the military, ambulances and hospitals.

Also, radiation exposure in this and higher bands can be particularly harmful, and has been linked to skin cancer deaths. Many hams, particularly on Field Day, have willingly subjected themselves to dangerously high radiation exposure levels in this band while operating. I'm sure you can agree that the results of this sort of careless operating are not pretty. I personally seen victims with radiation burns covering significant portions of the head, neck and arms.

While access to the 600nm band is currently unlicensed and unregulated, it is better to err on the side of caution, in accordance with good amateur practice. Nuff said.

--
Brian N0KZ

709. Lightbulb antennas considered harmful.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-01 02:51:45 UTC
From: w4wb
Topic: 703 Message: 709

Rather "light humor" Brian. ;-)
73 de Barry - W4WB

--- In hex-beam@y..., "bbadger" <bbadger@y...> wrote:
> Warning: using headlights and other lightbulbs as antennas can
result
> in significant non-harmonic radiation in the 600nm band, which can
> cause interference to other legitimate users of that band, some of
> which include airplanes, the military, ambulances and hospitals.
>
> Also, radiation exposure in this and higher bands can be
particularly
> harmful, and has been linked to skin cancer deaths. Many hams,
> particularly on Field Day, have willingly subjected themselves to
> dangerously high radiation exposure levels in this band while
> operating. I'm sure you can agree that the results of this sort of
> careless operating are not pretty. I personally seen victims with
> radiation burns covering significant portions of the head, neck and
> arms.
>
> While access to the 600nm band is currently unlicensed and
> unregulated, it is better to err on the side of caution, in
accordance
> with good amateur practice. Nuff said.
>
> --
> Brian N0KZ

710. Re: Miracle Whip?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-01 02:59:16 UTC
From: w4wb
Topic: 707 Message: 710

Hi Herb,

Hope you have a FB trip and return safely. Drop one of us an email or make a post when you might be on-the-air from way up North.

Wonder is the Miracle Whip antenna is made with "Kraftsmanship?"

Of course the bare light bulb makes an isotropic radiator (more or less), the the headlight David suggested makes a beam antenna.

Oh yes, we have a FB storm a hundred miles or so to the west that helped the propagation on 10 m to the K1B this afternoon. 10 m is a bummer from here to K1B based upon prediction codes. There he was and three calls later he was in the log. Two bands down and more to go. :-) This time it was with the HEx-Beam, FT-1000MP, and the VL-1000.

73 de Barry - W4WB

711. Hexbeam Group or Chit-Chat ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-02 23:49:01 UTC
From: n6tz
Topic: 711 Message: 711

I am sure that I will get flamed for this, and I am nothing but a visitor here, but here it is anyway.
I find that there is probably a ten to one ratio of content on this group. Ten parts chit-chat of little meaning, and one part content even remotely relating to the Hex Beam. (reporting dx worked with the beam has nothing to do with the beam, I work the stuff with a random wire)
So go ahead and open the flame guns. I said it, and will stand by it. The group will not grow with nonsense content.
Hal, N6TZ

712. Re: [hex-beam] Hexbeam Group or Chit-Chat ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-03 04:52:16 UTC
From: Eric Carling
Topic: 711 Message: 712

I have to agree - I joined the group last year when I was considering purchasing a Hex Beam but left for that very reason. I joined again last week when I placed my order for a HX-5bi but if anything it has got worse and I can't see that the content will be of any benefit to me when my Hex Beam arrives. I was about to leave the group again when I saw Hal's message. If he does get flamed this will be one more Hex Beam owner not in the group.

Eric.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 02 May 2002 23:49:01
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Hexbeam Group or Chit-Chat ?

I am sure that I will get flamed for this, and I am nothing but a visitor here, but here it is anyway.
I find that there is probably a ten to one ratio of content on this group. Ten parts chit-chat of little meaning, and one part content even remotely relating to the Hex Beam. (reporting dx worked with the beam has nothing to do with the beam, I work the stuff with a random wire)
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713. Re: [hex-beam] Hexbeam Group or Chit-Chat ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-03 09:54:52 UTC
From: David Douglass
Topic: 711 Message: 713

There is only so much that can be discussed about an 'over the counter antenna', and with the exception of comparing balun types or installation etc etc, (which have both been discussed at length), there isn't really a lot to talk about, except the homebrewers amongst us. That is of course, unless some of you guys are willing to start modifying and experimenting with your expensive systems (which I doubt few are willing to do).

Regards all

David, VK2DPD
----- Original Message -----
From: Eric Carling
To: hex-beam@yahoogroups.com
Sent: Friday, May 03, 2002 4:52 AM
Subject: Re: [hex-beam] Hexbeam Group or Chit-Chat ?

I have to agree - I joined the group last year when I was considering purchasing a Hex Beam but left for that very reason. I joined again last week when I placed my order for a HX-5bi but if anything it has got worse and I can't see that the content will be of any benefit to me when my Hex Beam arrives. I was about to leave the group again when I saw Hal's message. If he does get flamed this will be one more Hex Beam owner not in the group.

Eric.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 02 May 2002 23:49:01
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Hexbeam Group or Chit-Chat ?

I am sure that I will get flamed for this, and I am nothing but a visitor here, but here it is anyway.
I find that there is probably a ten to one ratio of content on this group. Ten parts chit-chat of little meaning, and one part content even remotely relating to the Hex Beam. (reporting dx worked with the beam has nothing to do with the beam, I work the stuff with a random wire)
So go ahead and open the flame guns. I said it, and will stand by it. The group will not grow with nonsense content.
Hal, N6TZ

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714. Re: Hexbeam Group or Chit-Chat ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-03 10:14:36 UTC
From: on4ccw
Topic: 711 Message: 714

i agree David
after all, there is more to life then technical small-talk
One of the reasons i became a ham was to make my "human horizon"
larger. Hope one day i can talk to you guys using my hex...
by the way, started with building my hex, but the spreaders won't do.
They are to "soft". I looked at some wooden sticks , but i'm afraid
they will brake. I consider bamboo, but that is maybe to stiff.
anywone with suggestions???

Bye for now
Peter

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> There is only so much that can be discussed about an 'over the
counter antenna', and with the exception of comparing balun types or
installation etc etc, (which have both been discussed at length),
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start modifying and experimenting with your expensive systems (which
I doubt few are willing to do).
>
> Regards all
>
> David, VK2DPD
> ----- Original Message -----
> From: Eric Carling
> To: hex-beam@y...
> Sent: Friday, May 03, 2002 4:52 AM
> Subject: Re: [hex-beam] Hexbeam Group or Chit-Chat ?
>
>
> I have to agree - I joined the group last year when I was
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> purchasing a Hex Beam but left for that very reason. I joined
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Hal's message.
> If he does get flamed this will be one more Hex Beam owner not in
the group.
>
> Eric.

>
>
> -------Original Message-------
>
> From: hex-beam@y...
> Date: 02 May 2002 23:49:01
> To: hex-beam@y...
> Subject: [hex-beam] Hexbeam Group or Chit-Chat ?
>
>
> I am sure that I will get flamed for this, and I am nothing but a
> visitor here, but here it is anyway.
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Service.
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>
> [Non-text portions of this message have been removed]

715. Re: [hex-beam] Re: Hexbeam Group or Chit-Chat ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-03 10:33:56 UTC
From: Makoto Tanaka
Topic: 711 Message: 715

I agree with David and Peter too. As long as we feel relaxed
talking with each othe in this groupr, I welcome any kind of
issues evennon Hex stories. I have been very encouraged to
see lots of friends using the same toy over the Pacific or over
the north pole....Am I too human?

73, JR1NHD - Shin
----- Original Message -----
From: on4ccw
To: hex-beam@yahoogroups.com
Sent: Friday, May 03, 2002 7:14 PM
Subject: [hex-beam] Re: Hexbeam Group or Chit-Chat ?

i agree David
after all, there is more to life then technical small-talk
One of the reasons i became a ham was to make my "human horizon"
larger. Hope one day i can talk to you guys using my hex...
by the way, started with building my hex, but the spreaders won't do.
They are to "soft". I looked at some wooden sticks , but i'm afraid
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start modifying and experimenting with your expensive systems (which
I doubt few are willing to do).
>
> Regards all
>
> David, VK2DPD

[Non-text portions of this message have been removed]

716. Technical vs. non-technical

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-04 10:42:25 UTC
From: Buzz & Quinta
Topic: 716 Message: 716

I guess everyone is allowed their opinion. I would never "flame" someone for voicing theirs.
As a non-technical owner of a HB 5 bander, I really enjoy the humor that is put forth on this
board. If all I wanted was technical stuff, I would stay at work longer. For me, opening the
HB mail is generally "fun reading". If it is something too technical for these brain cells, I simply
hit the delete key.
I was not going to respond to any of the recent posts where folks stated they would not be in
the group any longer if it did not become a technical depository. I could say the same thing
180 degree around the circle, but I find it much easier to just delete the posts I don't want to
read in their entirety.
As for me, I look forward to some playful banter, and I even pick up useful information here, as well.

Happy Hexing,

Buzz
N5FTR

[Non-text portions of this message have been removed]

717. Hex-beam Chit-Chat

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-03 10:57:45 UTC
From: on6ec
Topic: 717 Message: 717

Hi Guy's
Not sure if I'm a new member because I read all the messages from the start of this reflector.
My modest opinion is that One can only say that much about one topic. So some humor is in place. However, when You buy a commercial Hexbeam system, which is not cheap, to European standards,(considering import tax and 21% sales tax in Belgium) and it works okay, the investment is maybe justified. But after testing the antenna, to find out if it is true, what the manufacturer claims, end of story.
It does'nt make sense to start experimenting and changing an antenna, already tested properly by the manufacturer and maybe turn it into a bad investment.
So the most interesting (technical) subjects will come from the people that build their own Hexbeams. One of the big questions I could pose is about the feed system. The commercial Hexbeam is fed with one coax and this does'nt seem to work very well with the home made beam.
I don't think that there is a lot of space in the PVC pipe, where the interconnections run through, to use coils or capacitors.
I had a home made 2 element quad and with the one coax feed system, 3 gamma match systems (one per loop) and compensating system (for reactance) it was a tuners nightmare. Tune one band, so detuning the other bands. After building a relay box and individual feedlines, no problem.
The other question is ; Why is the commercial Hexbeam fed on top and not at the bottom, a method which would make more sense to Me.
Well, that is it for now. keep up the good work.
Ed, ON6EC

718. Re: [hex-beam] Hex-beam Chit-Chat

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-03 12:12:20 UTC
From: David Douglass
Topic: 717 Message: 718

Hi Ed,

I was only joking about modifying the Hex Antenna (apologies but my rather poor attempts at humour don't translate well out of English). If I had spent a couple of thousand $$, I don't think I would be playing about with it either.

As for feeding the Hex, I think an interesting trial would be to try 70/75ohm twin feeder, as this is much closer to the desired feed point impedance than other twin lines, which I believe is inside the HB5. As for feeding it at the bottom, this also makes more sense to me, although it would be a bit more tricky to engineer/make them that way I would think. It would be interesting to find out, but I would think the initial HB% was designed this way because it was easier to build like that?? - Please feel free to correct me if I'm wrong guy's!!

Finally, my final word on the technical content of posts on this reflector - "If you don't like it start posting something more technical and get some discussion going".

Regards - David, VK2DPD

PS came across a very interesting antenna on the "GAP" website today. Can't remember the link, but it's called a SuperC. If anyone knows anything about these I'd be interested to hear from you, as I wouldn't mind having a go at an 80M version. It would be also good to keep my Pigeons in (you'll see what I mean if you check it out)
----- Original Message -----
From: on6ec
To: hex-beam@yahoogroups.com
Sent: Friday, May 03, 2002 10:57 AM
Subject: [hex-beam] Hex-beam Chit-Chat

Hi Guy's
Not sure if I'm a new member because I read all the messages from the start of this reflector.
My modest opinion is that One can only say that much about one topic. So some humor is in place. However, when You buy a commercial Hexbeam system, which is not cheap, to European standards,(considering import tax and 21% sales tax in Belgium) and it works okay, the investment is maybe justified. But after testing the antenna, to find out if it is true, what the manufacturer claims, end of story.
It does'nt make sense to start experimenting and changing an antenna, already tested properly by the manufacturer and maybe turn it into a bad investment.
So the most interesting (technical) subjects will come from the people that build their own Hexbeams. One of the big questions I could pose is about the feed system. The commercial Hexbeam is fed with one coax and this does'nt seem to work very well with the home made beam.

I don't think that there is a lot of space in the PVC pipe, where the interconnections run through, to use coils or capacitors.
I had a home made 2 element quad and with the one coax feed system, 3 gamma match systems (one per loop) and compensating system (for reactance) it was a tuners nightmare. Tune one band, so detuning the other bands. After building a relay box and individual feedlines, no problem.
The other question is ; Why is the commercial Hexbeam fed on top and not at the bottom, a method which would make more sense to Me.
Well, that is it for now. keep up the good work.
Ed, ON6EC

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[Non-text portions of this message have been removed]

719. Re: Hexbeam Group or Chit-Chat ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-03 12:46:50 UTC
From: w4wb
Topic: 711 Message: 719

Hi Hal and Eric,

First, let me point out that I'm the owner of this reflector and, frankly, it has the "flavor" that I had hoped it would take on.

David and others have correctly pointed out that there is only so much you can say about the commerical Hex-Beam; however, all has not been said yet. The primary purpose of this reflector was, and continues to be, a place where folks who are Hex-Beam owners or are interested in this antenna form can meet, discuss, help each other, and make new friends. With just a few hundred Hex-Beams in the world, how each would you easily find another Hex-Beam user to discuss HB matters with?

I am the moderator of several other lists with one having over 3000 members discussing just the FT-817. The flavor of it is rather different. If you look at the photographs, read the extensive and useful material in the files, and read past postings in the archive, I believe you will find significant technical information. I am sure several folks would have been unhappy with their antenna had it not been for the contacts made on this reflector that resulted in solving their particular problem(s). This is in the ham spirit isn't it? Making friends, helping others, and enjoying the hobby are certainly important to me.

If you have technical questions or contributions, please ask/post them. Just remember, this reflector simple serves as a gathering place for those interested in the Hex-Beam. An interestingly large number of people have or are attempting to build their own Hex-Beams. They and owners of the commercial version of the HB have shared information and learned from each other.

I hope you will stay and participate, but if this "relaxed" group is not what you are looking for, I sincerely hope you find it elsewhere.

Eric, hope you have great pleasure with the HX-5Bi you have coming!

73 de Barry - W4WB

--- In hex-beam@y..., "n6tz" <halw@s...> wrote:
>
> I am sure that I will get flamed for this, and I am nothing but a
> visitor here, but here it is anyway.
> I find that there is probably a ten to one ratio of content on this
> group. Ten parts chit-chat of little meaning, and one part content
> even remotely relating to the Hex Beam. (reporting dx worked with
> the beam has nothing to do with the beam, I work the stuff with a

> random wire)
> So go ahead and open the flame guns. I said it, and will stand by
> it. The group will not grow with nonsense content.
> Hal, N6TZ

720. fw: Message from DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-03 13:23:48 UTC
From: w4wb
Topic: 720 Message: 720

Hello,
I hope this message will find it's way. I'm new to the group and not familiar with spotting to newsgroups. I'm DL7IO and I have build a couple of 5-band reflected W beams or HEXBEAMS if it is Traffies version by myself. I mostly used the low impedance feeding line the commercial Traffie version has. Right now I'm testing with a direct coax-feeding. Mathematics are done and I will be ready for practical tests/field measurments next week.
regards Holger

(He sent to me for posting. Holger is now a member and can post directly in the future. 73 de Barry - W4WB)

721. Is your HEX Beam cracked up?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-03 14:20:25 UTC
From: Peter D. Vouvounas
Topic: 711 Message: 721

My fellow HEX friends,

After a few months following my 5B HEX initial erection I noticed that the fiberglass spreaders have a crack at the 90 degree point when viewing from the base plate.

The termination of the spreaders with U-bolts compressing metal angular sections have deformed the ends such that the fiberglass surface has started to take on a 90 degree angle.

I don't believe that any serious integrity issue will surface but surly want to keep an eye on the situation. A little tough to view this area now that the antenna has been crained into it's final position. (HEX has been elevated approx. 11 months.

Please share any observations you may have.

73

PeterV [REN] WB3FSR

p.s. Looking forward to meeting all of you in Dayton!!!

722. Another Hex user in JA

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-03 14:38:19 UTC
From: Makoto Tanaka
Topic: 722 Message: 722

Hi,

JA4FHE / Aki installed HX5B-i today at the top of his residence. P5 is the last to complete his DXCC!!
He told me he will join the net on Sunday moning (JA time). I will post the picture of his antenna installation.

I hope this group will grow worldwide. Enjoy get-together at Dayton.

****
Makoto Tanaka "Shin"
JR1NHD
ex. 9V1ZW, AA2DI
<jr1nhd@...>
<jr1nhd@...>
****

[Non-text portions of this message have been removed]

723. Re: [hex-beam] Re: Hexbeam Group or Chit-Chat ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-03 16:06:06 UTC
From: Eric Carling
Topic: 711 Message: 723

Hi Barry,
Valid points all and mni tnx for gd wishes re my impending HX-5Bi. Of course I will stay and I know that help will be forthcoming from all on here should I need it.
73 de Eric.

I hope you will stay and participate, but if this "relaxed" group is not what you are looking for, I sincerely hope you find it elsewhere.

Eric, hope you have great pleasure with the HX-5Bi you have coming!

73 de Barry - W4WB

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[Non-text portions of this message have been removed]

724. homebrew MKII Update

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-04 14:04:18 UTC
From: David Douglass
Topic: 724 Message: 724

Hi Guys,

Just a quick update on the performance findings of the MKII Hex (Individual Feed System).

In comparison to the MKI, multi-fed Hex I can pretty much say the following.

1. Individual feed lines definitely make SWR adjustments easier.

2. Interactions between elements seem high in both antennas, but much more so in the multi-fed antenna (don't expect to achieve good SWR on all bands in the multi-feed system, unless you want to buy the HX-5Bi). Thankfully a good SWR doesn't mean squat when it comes to performance!

3. Performance seems good on all bands, as opposed to poor performance on 15M on the multi-fed antenna. Performance on 20/17 and 12 were pretty much the same, and it was hard to tell with 10M due to variation in propagation. FB ratio on 15/10 metres on the MKI seemed poor!

4. Multi-fed antenna had the added bonus of good performance on 30M (with a external tuner - my TS570 internal tuner would not handle this). 30M performance on the individual fed antenna was very poor in comparison. I assume this is due to the multi-fed antenna simply having a lot more wire connected to the feed line.

Obviously these conclusions are just based on my general observations, as I didn't run both antennas at the same time, although I think I did get a pretty good feel for the performance.

Final tally was << MKI = 12 new DXCC....MKII = 2 new DXCC >>

In conclusion, if and when I make a MKIII antenna (too bloody cold at the moment), I think I would have another go at multi-feeding (possibly using twin-feed all the way to the shack), although I would want a different antenna mast to allow quicker and easier lowering for adjustments.

Good night all

David, VK2DPD

PS just worked K1B on 30M - to give 9 bands CW (160-10)
vk2dpd@...
vk2dpd@...

725. new to the group

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-04 15:09:58 UTC
From: dl7io
Topic: 725 Message: 725

Hello everybody,
I'm Holger, DL7IO, and this lokes like my first succesful posting hi.
Thanks to W4WB for QSP.
I bought about 2 years ago 3 HEX-beams from Traffie. But my beam (HX5B # 034)was lost during the flight back to Germany. This was no problem of Traffie (he delivered within the states) but nevertheless we did not come together and I finally made my first beam by myself.
I used the same feeding systems he is doing (low impedance line parallel feeding of all elements).
The antenna itself is based on a reflected M design or also described as X-beam in some literature. Multiband versions are difficult to design because of the strong impact/influence between the wire elements.
There are 2 designs for monoband beams.
1.) Best gain with 25 Ohm feeding point. So easy to match to 50 Ohm by a quarter wavelength coax stub(37 Ohm or 2 x 75 Ohm parallel). Bandwith is very small.
2.) 50 Ohm design with less gain but more bandwith.

I've done lots of modelling and mathematics and prepared a version that is hopefully more easy to build with 50 Ohm coax feeding between the driven elements.

I've everything I need for measuring antennas and next weekend I will make field tests with various types of those beams. I hope we also can get a HEXBEAM made by Traffie to compare all beams.

During the last year I made about 20.000 Q's from DXpeditions and during contests with my reflected W's and I found lot's of interest by other HAM's.

After finishing my field tests I will deside for the version I will use for building a small serie of 10-20 5-band beam.

I did not read all the postings but I got the feeling that the homemade versions use singleband coax feeding. Has anybody made the feeding with a single coax cable?

By the way,once sitting in a very "interesting" meeting I used the timeto make a powerpoint file with dimensions, fotos, all details needed to build a reflected W beam. Any interest?
regards Holger

726. Re: [hex-beam] new to the group

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-04 22:11:43 UTC
From: David Douglass
Topic: 725 Message: 726

HI Holger and welcome to the group!!

I have made both a single feed (5 coax cables) antenna and multi-feed antenna (1 coax cable). I'd very interested to see your power point file, and maybe you could upload it into the files section on the YahooGroups page. If you have trouble with this, just e-mail it me and I'll upload it for you.

Regards

David, Vk2DPD (Think I've worked you both in Germany and when you were in FO/Austral Is)
----- Original Message -----
From: dl7io
To: hex-beam@yahoogroups.com
Sent: Saturday, May 04, 2002 3:09 PM
Subject: [hex-beam] new to the group

Hello everybody,
I'm Holger, DL7IO, and this lokes like my first succesful posting hi.
Thanks to W4WB for QSP.
I bought about 2 years ago 3 HEX-beams from Traffie. But my beam (HX5B # 034)was lost during the flight back to Germany. This was no problem of Traffie (he delivered within the states) but nevertheless we did not come together and I finally made my first beam by myself.
I used the same feeding systems he is doing (low impedance line parallel feeding of all elements).
The antenna itself is based on a reflected M design or also described as X-beam in some literature. Multiband versions are difficult to design because of the strong impact/influence between the wire elements.
There are 2 designs for monoband beams.
1.) Best gain with 25 Ohm feeding point. So easy to match to 50 Ohm by a quarter wavelength coax stub(37 Ohm or 2 x 75 Ohm parallel). Bandwith is very small.
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I did not read all the postings but I got the feeling that the homemade versions use singleband coax feeding. Has anybody made the feeding with a single coax cable?

By the way,once sitting in a very "interesting" meeting I used the timeto make a powerpoint file with dimensions, fotos, all details needed to build a reflected W beam. Any interest?
regards Holger

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727. New File Uploaded

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-05 12:15:28 UTC
From: David Douglass
Topic: 727 Message: 727

Hi all,

I've just uploaded a file to the Files section. This is a PowerPoint file from Holger - DL7IO, which I believe details some of his homebrew work with the Hex (ReflectedW).

I haven't had a chance to view the file myself, as I don't have PowerPoint on my PC, and I will have to wait till I get to work tomorrow to have a look (Much better than actually doing any work).

If anyone has any problems with the file, I can probably directly e-mail you a copy.

Regards

David, VK2DPD
vk2dpd@...
vk2dpd@...

728. DL7IO ReflectedW (HEX)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-06 09:40:18 UTC
From: David Douglass
Topic: 728 Message: 728

Hi all,

For those who haven't checked it out yet, Holgers file is a must see, especially for those planning on making there own antenna. There are some excellent design tips in there, as well as comprehensive measurements and dimensions.

Holger, I'd be interested to know what sort of SWR data you have on this, and whether you have done any measurements of gain/FB ratio.

An excellent Job - well done!

David, VK2DPD
vk2dpd@...
vk2dpd@...

729. Re: DL7IO ReflectedW (HEX)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-06 13:23:44 UTC
From: dl7io
Topic: 728 Message: 729

Thanks for the flowers David.
So it finally was a good decision to take part on the meeting 'hi'.

I've done everything you are asking for. The SWR is less than 1:1,5 on all bands (it is better in reality than on my computer modelling!). The gain is the best on the CW-portion of the band (varies between 6 dBi and 5 dBi) and goes down to about 3 dBi. 10/12 m has less gain of about 4 dBi max!!! By changing the element design you can get 1 band better but the other one will lose gain to for example 5 dbi on 10m and 2 dBi for 12m. The wires are to close together and are influencing each other very strong.
This can be confirmed by feedback from users even my impression was a good gain on 20/17/15 but especially on 10m most other stations got out better than me. But on 10m many HAMs have more than 2 elements...

I'm going to do measurments for gain, F/B and SWR next weekend and will compare a couple of versions. I hope to get an original beam from Traffie to compare with my versions.

Next week if I complete my paperwork I will give you the results.

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi all,
>
> For those who haven't checked it out yet, Holgers file is a must see,
> especially for those planning on making there own antenna. There are some
> excellent design tips in there, as well as comprehensive measurements and
> dimensions.
>
> Holger, I'd be interested to know what sort of SWR data you have on this,
> and whether you have done any measurements of gain/FB ratio.
>
> An excellent Job - well done!
>
> David, VK2DPD
> vk2dpd@q...
> vk2dpd@b...

730. Holger's Power point presentation

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-06 13:56:43 UTC
From: on6ec
Topic: 730 Message: 730

Hi Holger
Looked at your Hexbeam PPT. Very clear explanation. Well done.
About the wires being close together for a multi-band design. It was the same with my home made two element quad for 10/15 and 20.
With all the loops in place and mounted on the carriage system against my freestanding tower, I only had to push one driven loop a cm or so closer to the one next to it, and the reactance changed.
BTW, I also observed a change in reactance, cranking the antenna to operating position at 20 mtr and measuring every meter with a electrically neutral length of coax connected to the beam and the impedance/reactance analyzer.
Keep up the good work.
Regards Ed ON6EC

731. Re: fw: Message from DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-06 14:49:04 UTC
From: on4ccw
Topic: 720 Message: 731

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
Hello Holger, i would like to know what material you used for the
spreaders?
Any foto's available?
Thanks!
Peter

> Hello,
> I hope this message will find it's way. I'm new to the group and
not
> familiar with spotting to newsgroups. I'm DL7IO and I have build a
> couple of 5-band reflected W beams or HEXBEAMS if it is Traffies
> version by myself. I mostly used the low impedance feeding line the
> commercial Traffie version has. Right now I'm testing with a direct
> coax-feeding. Mathematics are done and I will be ready for
practical
> tests/field measurments next week.
> regards Holger
>
> (He sent to me for posting. Holger is now a member and can post
> directly in the future. 73 de Barry - W4WB)

732. spreader materials

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-06 15:44:03 UTC
From: dl7io
Topic: 732 Message: 732

Hello Peter,
for the first beams I used fiberglas fishing tube of about 4 m length and took of the small top element. It is seen in the .ppt file.
The bottom (where it is clamped to the mounting plate)was filled with wooden sticks (30 cm)to make it strong enough for the U-bolts.
Now I'm using fiberglas tubes made on my special requirments. This fiberglas is winded!!! This makes it much stronger than in the length stretched fiberglas. That means it can be thinner. The end and the connection between the 2 parts are thicker made so I can use directly U-bolts to connect it to the mounting plate. At the bottom the diameter is 20mm and on top the diameter is 8mm. The weight of all tubes is about 2.5kg. The whole antenna has about 7-8kg.
My tubes now are black, UV-resistant and also the centersupport is from fiberglas.
This fiberglas is the most expensive part from the antenna! The prototype tubes costs about 300 Euro. But I ordered only for 1 antenna.

With fishing tubes it is of course much cheaper (about 200 Euro for the whole antenna).
I had sometimes Force12 winds on Malta with my fishing tube beams and they withstand without any problems.

The wooden centersupport seen in the.ppt file was only for experiments. So I had the feeding systems outside and could easier do some changes.
regards Holger
PS. Will add a .zip file with fotos

733. Re: fw: Message from DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-06 17:39:59 UTC
From: on4ccw
Topic: 720 Message: 733

--- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> --- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:

sorry, find your presentation. Excellent!! ok , i wish i got so
far....Where did you find the fiberglass-rods???I'm getting
frustrated here. How did you make your calculations??
thanks for the info!!!
Peter
> Hello Holger, i would like to know what material you used for the
> spreaders?
> Any foto's available?
> Thanks!
> Peter
>
>
> > Hello,
> > I hope this message will find it's way. I'm new to the group and
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> > familiar with spotting to newsgroups. I'm DL7IO and I have build
a
> > couple of 5-band reflected W beams or HEXBEAMS if it is Traffies
> > version by myself. I mostly used the low impedance feeding line
the
> > commercial Traffie version has. Right now I'm testing with a
direct
> > coax-feeding. Mathematics are done and I will be ready for
> practical
> > tests/field measurments next week.
> > regards Holger
> >
> > (He sent to me for posting. Holger is now a member and can post
> > directly in the future. 73 de Barry - W4WB)

734. Linear Traps

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-07 01:07:46 UTC
From: vk2dpd
Topic: 734 Message: 734

Hi All,

There has been a bit of talk about the way in which the elements interact in the multi-band Hex antennas. As all will know, this makes tuning difficult and tends to minimise band width.

I have posted a picture in my Photo-Folder, showing a proposed system to minimise this.

I take no credit for this, and it comes from Les Moxon - G6XN - HF Antennas for all locations. I have not tried this out, but this guy knows antennas, I would recommend this book to anyone mildly interested in Antennas (knocks spots off the ARRL Antenna Book).

The photo is called linear trap, and this is an easy mode that could even be done to the HX-5i (I can just imagine you guys breaking out into a cold sweat at the thought of modifications)

Regards all

David, VK2DPD

Final tally K1B - 9 bands CW, 7 bands SSB, 3 bands RTTY all homebrew antennas

735. Re: fw: Message from DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-07 08:15:20 UTC
From: dl7io
Topic: 720 Message: 735

Peter,
I used fishing pipes of 4m length for experimenting. Costs are about 8 Euro each in the shop or 3 Euro if you byu 100 pieces at the manufacturer/Importer (Netherland has a few). But they are only 0,6 mm thick or better thin and the fiberglas is stretched in the length. So they are very soft and can break easy. I have no idea how they will work with ice. Wind is no problem for them. But you must support them in the mounting plate area. I used 30cm wooden sticks to put inside otherwise the clamps will break the fiberglas.

I'm now using fiberglas rods made on my special requirements. This is winded and thicker. The lower 30 cm of the rods are double that thick like the rest (2-2.5 mm fiberglas). The diameter at the bottom also is smaller. It is 20 mm outer diameter and about 8 mm at the top.

I've not made fotos yet from the prototype but will do this during the measurements next weekend. I got some people interested in and we will make a small serie of 10-20 beams after finding the best design. That means I will order more rods and hope to get a better price than. Right now I payed almost 300 Euro only for the fiberglas. The company is Germany based and can be found int he internet (www.cg-tec.de also in english!). They are deliverer for other antenna making companies and were very used to the themes.

By the way we are combining the measurements with a small IOTA activity. From Wednesday(night) till Sunday we are on Poel Isl (EU098) and will use a clubcall DF0RR/p or DF0RU/p for radioing. This also will count for HXCC ;-)

I will have 3 portable towers, 3 different reflected W Beams (10-20m) and probably also a Hexbeam made by Traffie.
...and of course some radios plus 'legal' power, computers etc. etc.
My Van will be full off stuff.
regards Holger

--- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> --- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> > --- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
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> sorry, find your presentation. Excellent!! ok , i wish i got so
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> frustrated here. How did you make your calculations??
> thanks for the info!!!
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> > Hello Holger, i would like to know what material you used for the
> > spreaders?

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> > > (He sent to me for posting. Holger is now a member and can
post
> > > directly in the future. 73 de Barry - W4WB)

736. Re: fw: Message from DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-07 13:29:37 UTC
From: on4ccw
Topic: 720 Message: 736

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
Hi Holger,

really interesting. I'm thinking of using bamboo on which i
can "tape" fiberglass-cloths and then paint it with ressin (
spelling????)In other words , the method they use for fixing cars and
boats.
I still don't know how you made your calculations. I have here about
200meter(!!) steal(1.8 mm diameter without insulation,2.8mm with)
insulated wire which i like to use.
Bye for now
Peter

> Peter,
> I used fishing pipes of 4m length for experimenting. Costs are
about
> 8 Euro each in the shop or 3 Euro if you byu 100 pieces at the
> manufacturer/Importer (Netherland has a few). But they are only 0,6
> mm thick or better thin and the fiberglas is stretched in the
length.
> So they are very soft and can break easy. I have no idea how they
> will work with ice. Wind is no problem for them. But you must
support
> them in the mounting plate area. I used 30cm wooden sticks to put
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> I'm now using fiberglas rods made on my special requirements. This
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> is smaller. It is 20 mm outer diameter and about 8 mm at the top.
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> I've not made fotos yet from the prototype but will do this during
> the measurements next weekend. I got some people interested in and
we
> will make a small serie of 10-20 beams after finding the best
design.
> That means I will order more rods and hope to get a better price
> than. Right now I payed almost 300 Euro only for the fiberglas. The
> company is Germany based and can be found int he internet (www.cg-
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> By the way we are combining the measurements with a small IOTA
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> and will use a clubcall DF0RR/p or DF0RU/p for radioing. This also
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> --- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
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> > thanks for the info!!!
> > Peter
> > > Hello Holger, i would like to know what material you used for
the
> > > spreaders?
> > > Any foto's available?
> > > Thanks!
> > > Peter
> > >
> > >
> > > > Hello,
> > > > I hope this message will find it's way. I'm new to the group
> and
> > > not
> > > > familiar with spotting to newsgroups. I'm DL7IO and I have
> build
> > a
> > > > couple of 5-band reflected W beams or HEXBEAMS if it is
> Traffies
> > > > version by myself. I mostly used the low impedance feeding
line
> > the
> > > > commercial Traffie version has. Right now I'm testing with a
> > direct
> > > > coax-feeding. Mathematics are done and I will be ready for
> > > practical
> > > > tests/field measurments next week.
> > > > regards Holger
> > > >

> > > > (He sent to me for posting. Holger is now a member and can
> post
> > > > directly in the future. 73 de Barry - W4WB)

737. Re: fw: Message from DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-07 14:34:32 UTC
From: dl7io
Topic: 720 Message: 737

Peter,
you better use copper wire and no steel!!!!!
using steel will bring losses of about 1.5-2 dB. That means you are
almost like a dipole concerning the gain. Again please use flexible
copper wire! 1,5 mm² is a good choise. The best is nonisolated.
There
is a paint spray especially for saltwater protection available. Use
this for the wires.
If you use isolated wire, all elements have to be 10-15 cm shorter
than in my table.

By the way...SUPERGAIN.... If I read those slogans I would like to
cry. This antenna is a 2 element yagi with a different mechanical
design. It is a "compromise antenna" and has less gain than a 2
element yagi!!! So if someone compares it to a 3 element yagi and
will get better results with the reflected W than the 3 ele yagi does
not work properly!

The receiving impression is mostly very good compared to verticals,
dipoles or small yagis. The reason for this is that the elements of
this antenna are coupling with the magnetic field component. So you
have less noise more like a closed loop. This will be confirmed by
the changing of the feedpoint resistance while changing the height.
If you move up a yagi or other beam with much space between the
elements, the (50 Ohm or whatever) resonant frequency goes up higher.
With the reflected W it comes down. So if it has good SWR at 14.1MHz
and 4m the best SWR in 20m height may be at 14 MHz or 13.9 MHz. So
please remember this if you are tuning the wires.
regards Holger
PS. For the Math I used NecWin and EZNEC
I tried a version with one common feeding point far all band elements
but gave up without success.

> Hi Holger,
>
> really interesting. I'm thinking of using bamboo on which i
> can "tape" fiberglass-cloths and then paint it with ressin (
> spelling????)In other words , the method they use for fixing cars
and
> boats.
> I still don't know how you made your calculations. I have here
about
> 200meter(!!) steal(1.8 mm diameter without insulation,2.8mm with)
> insulated wire which i like to use.
> Bye for now
> Peter

>
>
> > Peter,
> > I used fishing pipes of 4m length for experimenting. Costs are
> about
> > 8 Euro each in the shop or 3 Euro if you byu 100 pieces at the
> > manufacturer/Importer (Netherland has a few). But they are only
0,6
> > mm thick or better thin and the fiberglas is stretched in the
> length.
> > So they are very soft and can break easy. I have no idea how they
> > will work with ice. Wind is no problem for them. But you must
> support
> > them in the mounting plate area. I used 30cm wooden sticks to put
> > inside otherwise the clamps will break the fiberglas.
> >
> > I'm now using fiberglas rods made on my special requirements.
This
> is
> > winded and thicker. The lower 30 cm of the rods are double that
> thick
> > like the rest (2-2.5 mm fiberglas). The diameter at the bottom
also
> > is smaller. It is 20 mm outer diameter and about 8 mm at the top.
> >
> > I've not made fotos yet from the prototype but will do this
during
> > the measurements next weekend. I got some people interested in
and
> we
> > will make a small serie of 10-20 beams after finding the best
> design.
> > That means I will order more rods and hope to get a better price
> > than. Right now I payed almost 300 Euro only for the fiberglas.
The
> > company is Germany based and can be found int he internet (www.cg-
> > tec.de also in english!). They are deliverer for other antenna
> making
> > companies and were very used to the themes.
> >
> > By the way we are combining the measurements with a small IOTA
> > activity. From Wednesday(night) till Sunday we are on Poel Isl
> (EU098)
> > and will use a clubcall DF0RR/p or DF0RU/p for radioing. This
also
> > will count for HXCC ;-)
> >
> > I will have 3 portable towers, 3 different reflected W Beams (10-
> 20m)
> > and probably also a Hexbeam made by Traffie.

> > ...and of course some radios plus 'legal' power, computers etc.
> etc.
> > My Van will be full off stuff.
> > regards Holger
> >
> > --- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> > > --- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> > > > --- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> > >
> > > sorry, find your presentation. Excellent!! ok , i wish i got so
> > > far....Where did you find the fiberglass-rods???I'm getting
> > > frustrated here. How did you make your calculations??
> > > thanks for the info!!!
> > > Peter
> > > > Hello Holger, i would like to know what material you used for
> the
> > > > spreaders?
> > > > Any foto's available?
> > > > Thanks!
> > > > Peter

738. Re: More Homebrew Stuff

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-07 15:10:57 UTC
From: dl7io
Topic: 608 Message: 738

Hello again,
coax feeding on top:
The low impedance line will not work this way if you feed from the bottom. This version has to be feeded from the top end.

Coax not in the middle of the driven elements:
1. the only position without (better with the smallest) impact on the radiation is on the side between driven elements and reflector
2. the feeding point is the current maximum
Holger
--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi Doug,
>
> That's an interesting point, and to be quite honest I could never figure out why it was recommended that you run the coax down the side on the HX-5i??
>
> I would of thought keeping the coax down the middle and symmetrical would be the go, but I'm sure someone will correct me. I also could never figure out why the elements on the HX-5Bi were not fed at the bottom (10M), if there was an issue with the coax cable effecting things, as you expect the coax to have some effect on the twin feeder in the centre pole??
>
> Anyway, it seems to work OK with this method so have no plans to change - that is unless someone has a good reason why I should??
>
> Regards
>
> David, VK2DPD.
>
> ----- Original Message -----
> From: w6hb
> To: hex-beam@y...
> Sent: Friday, April 05, 2002 3:59 PM
> Subject: [hex-beam] Re: More Homebrew Stuff
>
>
> Nice job Joe and David. It looks like you are running the coax feed
> down the mast between the hot and cold legs of the driven element.
> For whatever reason, the commercial version elects to route the coax
> between the driven element cold leg and the adjacent reflector

leg.
> Continued good luck with your evolutions.
>
> 73 - Doug - W6HB - HX-5Bi #172
>
>
>
> --- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> > I've uploaded some pictures sent from Joe, AA5HP, ("hope you
don't
> mind
> > Joe!!")showing his multi-band Hex centre post. They are in a
folder
> in the
> > pictures section called AA5HP.
> >
> > As you will see, Joe is more adept at this Homebrewing business
> than me and
> > has developed a very neat feed system and element attachment
point
> for the
> > spreaders.
> >
> > Good luck Joe and keep them coming!!
> >
> > David, VK2DPD
> > vk2dpd@q...
> > vk2dpd@b...
>
>
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>
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>
>
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Service.
>
>
>
> [Non-text portions of this message have been removed]

739. Best Antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-07 21:16:46 UTC
From: Brady, Charles E CAPT
Topic: 739 Message: 739

Mike's Hex-Beams are the Best Antennas I have ever used on DX-expeditions!
Chuck Brady N4BQW/3Y0C

740. Re: Linear Traps

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-08 18:51:26 UTC
From: bbadger
Topic: 734 Message: 740

I don't know about other folks, but the reason I bought a HX-5Bi was because it was a lightweight, no-trap, 5 band beam.
--
Brian N0KZ

--- In hex-beam@y..., "vk2dpd" <vk2dpd@b...> wrote:

> The photo is called linear trap, and this is an easy mode that could
> even be done to the HX-5i (I can just imagine you guys breaking out
> into a cold sweat at the thought of modifications)

741. Re: Linear Traps

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-08 20:29:06 UTC
From: tomac14
Topic: 734 Message: 741

I bought it for the EXACT same reasons plus a few more:

Lightweight, No traps, 5 band, NO Tuning, Low SWR, good bandwidth,
and works like Hell!!!

Tom, N0YD "Yankee Doodle"

--- In hex-beam@y..., "bbadger" <bbadger@y...> wrote:
> I don't know about other folks, but the reason I bought a HX-5Bi was
> because it was a lightweight, no-trap, 5 band beam.
> --

742. Re: Linear Traps

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-08 21:45:31 UTC
From: w4wb
Topic: 734 Message: 742

Well guys, I am a busy fellow and don't have the time to build my own beam. Seems like Traffie spent a lot of time figuring out how to make a 5-band Hex-Beam work correctly. He may hold the World's record for climbing up and down the tower for maybe a year while this antenna was under development. He clearly succeeded while no one else has come close based upon all of the homebrew reports.

Bless each and every one building their own version of the Hex-Beam. I'm sure it is great fun and a FB learning experience. Modeling doesn't yet correlate well with observations and there are reasons for that too.

For my part, I am happy to have paid Traffie for an excellent antenna and to reap the benefits of his over a decade of experience with this antenna form.

73 de Barry - W4WB

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> I bought it for the EXACT same reasons plus a few more:
>
> Lightweight, No traps, 5 band, NO Tuning, Low SWR, good bandwidth,
> and works like Hell!!!
>
> Tom, N0YD "Yankee Doodle"
>
>
>
> --- In hex-beam@y..., "bbadger" <bbadger@y...> wrote:
> > I don't know about other folks, but the reason I bought a HX-5Bi
was
> > because it was a lightweight, no-trap, 5 band beam.
> > --

743. hexpedition

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-08 21:52:38 UTC
From: pb1tt
Topic: 743 Message: 743

found this one in the latest OPDX. might be interesting for another HXCC...

CY9, ST. PAUL ISLAND
Operators Duane/WV2B, William/VE1AAO, James/VE9DH, Ed/W0SD, Arliss/W7XU, Holly/N0QJM and Edith/W0OE are expected to be on the air from here late June 29th through July 8th. The operation will feature two full time stations and an attempt is being made to add a third, part time HF station to be used during peak propagation times, especially to the Pacific area where CY9 is needed by many. The group plans on operating on the west side of the island to have a clear shot to Asia, South America, North America and most of Europe. The landing is much more difficult on this side because of the prevailing winds which always seem to blow on St. Paul with high seas; therefore, the start up date is subject to landing conditions. As far as it is known, no previous operations have been from this side of the island. This operation will feature a full time, dedicated six meter station operated by W7XU, N0QJM, W0SD and W0OE. The six meter station WILL ONLY transmit on 50.157 MHz listening up when there is propagation. A beam and ACOM 1000 amplifier will be used with operation on SSB and CW. Liaison will be available on 28.886 MHz and E-mail updates via WINLINK 2000 will be provided to the appropriate Six Meter Internet sites. The Grid Square will be FN97. A special effort will be made to work Europe on double hop sporadic E in addition to North America and Caribbean areas! A second station will be set up for HF. The operation plans to use a 5 BAND HEX BEAM FOR 20-10 meters and a vertical on 30 and 40 meters. Given the time of the year, no operation is planned for 80 and 160 meters. An ACOM 1000 amplifier will be used. There will be activity on RTTY, SSB and CW. Operators will be WV2B, VE1AAO, VE9DH, W0SD, W7XU, N0QJM and W0OE. Planned frequencies are as follows:
RTTY - 7080, 10115, 14080, 18080, 21080, 24908 and 28080 kHz
CW - 7005, 10105, 14020, 18100, 21020, 24900 and 28020 khz
SSB - 14195, 18145, 21295, 24945 and 28495 (alternate 14145) kHz
All QSLs via W7XU.

p.s. K1B also in the log here. unfortunately, the hexbeam isn't up yet, so had to do it with an indoor wire dipole.
more remarks about the hexbeam (the 15/10 dualband version with 6 home-added) later.
greetings, Peter.

744. Hex-beam and Bouvet

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-08 22:33:18 UTC
From: w6hb
Topic: 744 Message: 744

Here is a little communication I had with probably the most famous
Hex-beam user, Chuck Brady, N4BQW/3Y0C.

73 - Doug - W6HB

****

Thanks Doug , Wish we could have got you from Bouvet....I am not an
antenna
expert, but consistently all the places I have ever been around the
world,
Mike and other fellows with hexbeams are a couple of s units louder
than
others in their area.....often times Mike was the only stateside
station on
some days I could hear on Bouvet including friends with high
multielement
beams and quads-----it is also just a superb Dxing
antenna ,lightweight
,easy to set up....we are going to submit an article soon on 3y0C and
hope
CQ or QST will run it. Best 73's Chuck

-----Original Message-----
From: w6hb [mailto:w6hb@...]
Sent: Tuesday, May 07, 2002 9:56 PM
To: cebrady@...
Subject: Hex-beam from Bouvet

Welcome back Chuck. I had tried to E-mail you at your last address
prior to getting my HX-5Bi. It seems that you dropped out of sight
after the stint on Bouvet. We would really like to know your specific
pros and cons on the Hex and why we didn't ever see a Bovet article
in any of the ham magazines. I was not lucky enough to work you when
you where there, but followed everything on-line daily. Welcome to
the reflector.

73 - Doug - W6HB

745. Re: [hex-beam] Re: Linear Traps

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-10 06:46:42 UTC
From: David Douglass
Topic: 734 Message: 745

Hi Barry and All,

And Thanks for the comments on linear Traps!

Firstly, obviously the word 'trap' has gotten a few people confused'. This is not the type of trap you would find in your average multi-band vertical or commercial tri-bander, but a small device for the "suppression of currents induced from neighbouring elements", which, if we like it or not, tends to be a fact of life in closed spaced arrays. From what I can gather (and I'm no expert), this is the only role the device plays, and should have no other impact on performance.

As for increasing weight of the antenna, this shouldn't be a problem as all you are adding is a few metres of wire and some small lightweight caps of negligible weight. Who knows, if Mike Traffie had tried these in his initial design maybe he could of saved a lot of climbing up his tower?

Whilst I partially agree with Barry (for a change), regarding the performance of the HX-5 against our meagre efforts, I tend to think maybe the performance difference is not so great, and I would be happy to compare DX logs with anyone.

Finally, and with the hope of not upsetting anyone further (not me, I wouldn't do that, "honest"), I agree that all of our times are valuable and it is difficult to find time to experiment and build stuff (I have a full time job and 2 kids under 5). However, on the other-hand, experimentation has always been a big part of our hobby, and one that can be, and is, very rewarding. I realise that some of the posts/comments I may have made, make it sound like I'm having a 'go' at the Hex-Beam design, but I appreciate (probably more than most as I've done a little myself), how much effort has gone into making this antenna, and a damn fine antenna it is, considering it's size.

Have a good weekend all, from sunny NSW

David, Vk2DPD
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Wednesday, May 08, 2002 9:45 PM
Subject: [hex-beam] Re: Linear Traps

Well guys, I am a busy fellow and don't have the time to build my own beam. Seems like Traffie spent a lot of time figuring out how to make a 5-band Hex-Beam work correctly. He may hold the World's record for climbing up and down the tower for maybe a year while this antenna was under development. He clearly succeeded while no one else has come close based upon all of the homebrew reports.

Bless each and every one building their own version of the Hex-Beam. I'm sure it is great fun and a FB learning experience. Modeling

doesn't yet correlate well with observations and there are reasons
for that too.

For my part, I am happy to have paid Traffie for an excellent antenna
and to reap the benefits of his over a decade of experience with this
antenna form.

73 de Barry - W4WB

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> I bought it for the EXACT same reasons plus a few more:
>
> Lightweight, No traps, 5 band, NO Tuning, Low SWR, good bandwidth,
> and works like Hell!!!
>
> Tom, N0YD "Yankee Doodle"
>
>
>
> --- In hex-beam@y..., "bbadger" <bbadger@y...> wrote:
> > I don't know about other folks, but the reason I bought a HX-5Bi
was
> > because it was a lightweight, no-trap, 5 band beam.
> > --

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746. Price went up 140.00 bucks?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-12 01:25:12 UTC
From: kb0adb
Topic: 746 Message: 746

I was thinking about that 5 bander till now!! What gives?
I enjoy all the tech talk and all the Installation photos all have
put
here!! But toooo rich for my blood, I'll just observe HiHi

747. Re: Price went up 140.00 bucks?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-12 03:09:21 UTC
From: w4wb
Topic: 746 Message: 747

--- In hex-beam@y..., "kb0adb" <kb0adb@y...> wrote:
> I was thinking about that 5 bander till now!! What gives?
> I enjoy all the tech talk and all the Installation photos all have
> put
> here!! But toooo rich for my blood, I'll just observe HiHi

Spring special price is $889. Costs money to build a quality product like the HX-5Bi, provide user support, attend hamfests like Dayton, etc. And they even to make a little profit, right? Look at the overall investment as well, i.e., tower/mast and rotor. You should be able to have the HX-5Bi up and running for under $1100.

73 de Barry - W4WB

748. Dayton

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-12 03:11:06 UTC
From: w4wb
Topic: 748 Message: 748

The Dayton Hamvention Special Event Station W8BI will be using the HX-5Bi. Might be a nice opportunity to try it out, if you can get the operator to share a bit! :-)

73 de Barry - W4WB

749. Re: [hex-beam] Price went up 140.00 bucks?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-12 05:41:17 UTC
From: David Douglass
Topic: 746 Message: 749

I don't think there's any excuse for just observing, when they're is fairly detailed instructions on the site as to how to build your own. I can't speak for the price of components in the US, but what I've seen of the fibreglass tubing I would be surprised if it should cost you more than $100 and a weekends work. As well as making a very fine antenna, you will also have the added bonus of being able to tell the DX you made it yourself. I find that's usually worth a couple of S-Points at least.

It's not just the Hex-Beam, but most commercially made antennas are very expensive, when you consider the cost of the raw materials!! I've seen people trying to sell wire dipoles for a couple of hundred bucks!!

Regards

David, VK2DPD
----- Original Message -----
From: kb0adb
To: hex-beam@yahoogroups.com
Sent: Sunday, May 12, 2002 1:25 AM
Subject: [hex-beam] Price went up 140.00 bucks?

I was thinking about that 5 bander till now!! What gives?
I enjoy all the tech talk and all the Installation photos all have
put
here!! But toooo rich for my blood, I'll just observe HiHi

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750. De-tuning . . . .

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-12 15:42:56 UTC
From: g4mjw
Topic: 750 Message: 750

Hi All,

A while ago a made a 15 mtr Mono-band HexBeam. I used GRP fishing rods and flexweave for the elements. On my 12ft high setup pole it was easy to fine-tune the lengths and gap between the tips to achieve 1.2:1 SWR at 21.25ØMHz. I took my FT-84Ø /PSU/SWR meter out into the garden along side the antenna. Listening to DX I was able to "swing" the HexBeam straight at the station and then swing 180 degrees off the back of the beam. There was a nice drop of at least 2-3 S-Points off the back of the beam. Even at 12ft above the ground, most signals were about an S-Point or so up on my Dipole. So it seems to be working OK.

Having shuvved it up on my mast at around 4Øft AGL all signals are still at least a S-Point up on my dipole which is now much lover than the HexBeam BUT I have lost my F/B . . . it does not matter which way I now point the HexBeam, signals are all more or less the same signal strength. (there are some minor nulls and peaks as I turn the rotator.

Obviously a major "de-tuning" affect. However, the SWR is still very low ~ 1.2:1 to 1.3:1 across the band. I guess I need to re-adjust the gaps between the two elements. Anyone know which way it should go??? I can't do it up on the main mast . . . the gaps are too far out to reach!

Any help will be most welcome.

Bye for now ☐ Steve/G4MJW

751. Re: De-tuning . . . .

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-12 17:31:11 UTC
From: w4wb
Topic: 750 Message: 751

Hi Steve,

I didn't try 12', but at about 8' on the HX-5B, the resonance was about 300 kHz or so low. When it was raised to height, it was right on the money.

For a 15' beam, you might want to think about using it at about 29' rather than 40'. The pattern will be a bit nicer for general applications I believe.

Congratulations on a nice job getting the antenna to work.

73 de Barry - W4WB

--- In hex-beam@y..., "g4mjw" <catweazle@s...> wrote:
> Hi All,
>
> A while ago a made a 15 mtr Mono-band HexBeam. I used GRP fishing
> rods and flexweave for the elements. On my 12ft high setup pole it
> was easy to fine-tune the lengths and gap between the tips to
achieve
> 1.2:1 SWR at 21.25ØMHz. I took my FT-84Ø /PSU/SWR meter out into
the
> garden along side the antenna. Listening to DX I was able
to "swing"
> the HexBeam straight at the station and then swing 180 degrees off
> the back of the beam. There was a nice drop of at least 2-3 S-
Points
> off the back of the beam. Even at 12ft above the ground, most
signals
> were about an S-Point or so up on my Dipole. So it seems to be
> working OK.
>
> Having shuvved it up on my mast at around 4Øft AGL all signals are
> still at least a S-Point up on my dipole which is now much lover
than
> the HexBeam BUT I have lost my F/B . . . it does not matter which
way
> I now point the HexBeam, signals are all more or less the same
signal
> strength. (there are some minor nulls and peaks as I turn the
rotator.
>
> Obviously a major "de-tuning" affect. However, the SWR is still
very

> low ~ 1.2:1 to 1.3:1 across the band. I guess I need to re-adjust
the
> gaps between the two elements. Anyone know which way it should
go???
> I can't do it up on the main mast . . . the gaps are too far out
to
> reach!
>
> Any help will be most welcome.
>
> Bye for now ☐ Steve/G4MJW

752. Re: De-tuning . . . .

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-12 18:34:43 UTC
From: g4mjw
Topic: 750 Message: 752

Thanks for the info Barry.

I've wound it up-and-down while in contact . . . . from 20ft to 40ft
and can't say that I really notice a lot of difference!

Emmmm, maybe I'll put it back on the 12ft mast and use it like
that . . . thus restoring a good F/B ratio!

Thanks for yr help - Steve/G4MJW

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Hi Steve,
>
> I didn't try 12', but at about 8' on the HX-5B, the resonance was
> about 300 kHz or so low. When it was raised to height, it was
right
> on the money.
>
> For a 15' beam, you might want to think about using it at about 29'
> rather than 40'. The pattern will be a bit nicer for general
> applications I believe.
>
> Congratulations on a nice job getting the antenna to work.
>
> 73 de Barry - W4WB

753. Re: [hex-beam] Price went up 140.00 bucks?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-13 02:30:44 UTC
From: Robert Gerard
Topic: 746 Message: 753

I don't want to pick any fights and I've never even met Mike Traffie (although I hope to in Dayton) so I have no axe to grind but I do think he developed and now sells a very interesting and high performing antenna. How many hundreds (thousands?) of hours did he spend in development work before he even got close to selling the first one? And how many hours does it take to hand make the parts for each one? And how much does it cost to advertise it and promote it? In short, I'd be very surprised to learn that Mike has made the price of a not that fancy car out of the whole enterprise, so suggesting he is somehow profiteering doesn't make sense to me. If there is the ability to homebrew--as DD puts it, "fairly detailed instructions on the site"--it is there for one reason and one reason only: because Mike spent a lot of time and effort developing and implementing what is a very complex technical challenge, particularly insofar as the the 5 band antenna is concerned. I should think the homebrewers (whom I take my hat off to) should thank him, not begrudge him a price that enables him to justify the effort. Indeed, I should think the homebrewers, with much more first hand knowledge of some of the complexities involved, would be the last to compare developing the 5 band Hexbeam to selling a dipole. 73, Bob, K2WY
----- Original Message -----
From: "David Douglass" <vk2dpd@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, May 12, 2002 01:41
Subject: Re: [hex-beam] Price went up 140.00 bucks?

> I don't think there's any excuse for just observing, when they're is fairly detailed instructions on the site as to how to build your own. I can't speak for the price of components in the US, but what I've seen of the fibreglass tubing I would be surprised if it should cost you more than $100 and a weekends work. As well as making a very fine antenna, you will also have the added bonus of being able to tell the DX you made it yourself. I find that's usually worth a couple of S-Points at least.
>
>
> It's not just the Hex-Beam, but most commercially made antennas are very expensive, when you consider the cost of the raw materials!! I've seen people trying to sell wire dipoles for a couple of hundred bucks!!
>
> Regards
>
> David, VK2DPD
> ----- Original Message -----
> From: kb0adb
> To: hex-beam@yahoogroups.com
> Sent: Sunday, May 12, 2002 1:25 AM
> Subject: [hex-beam] Price went up 140.00 bucks?

>
>
> I was thinking about that 5 bander till now!! What gives?
> I enjoy all the tech talk and all the Installation photos all have
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> here!! But toooo rich for my blood, I'll just observe HiHi
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>
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>

754. Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-13 04:23:37 UTC
From: Brad Sumner
Topic: 754 Message: 754

Hi Gang,

Dayton is only a few days away now. Several weeks ago several of us discussed getting together on Friday at 11 AM in the "dining" area of Hara arena. I agreed to keep track of those planning on attending. Not many so far have responded, but here is the list

K?FUZ John
K?TRL Brad
W4WB Barry
N?YD Tom
WB3FSR Peter

If anyone else will be there, please let us know. Hope to meet you all in person.

755. Re: [hex-beam] Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-14 10:26:40 UTC
From: Buzz & Quinta
Topic: 754 Message: 755

Sorry, not making Dayton this year. Have a cold one for me!

Buzz
N5FTR
----- Original Message -----
From: Brad Sumner
To: hex-beam@yahoogroups.com
Sent: Sunday, May 12, 2002 11:23 PM
Subject: [hex-beam] Dayton Get Together?

Hi Gang,

Dayton is only a few days away now. Several weeks ago several of us discussed getting together on Friday at 11 AM in the "dining" area of Hara arena. I agreed to keep track of those planning on attending. Not many so far have responded, but here is the list

KØFUZ John
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W4WB Barry
NØYD Tom
WB3FSR Peter

If anyone else will be there, please let us know. Hope to meet you all in person.

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[Non-text portions of this message have been removed]

756. Re: [hex-beam] Price went up 140.00 bucks?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-13 11:23:39 UTC
From: David Douglass
Topic: 746 Message: 756

Bob,

I totally agree! Without the work of Mike Traffie I wouldn't of even thought of attempting to make a Hex-Beam, or would have had any idea where to start. This is also the case of my previous antenna, for which I'm indebted to Les Moxon, and the one before that for which "I take my hat off to" the late Louis Varney. All of these people have spent countless hours in amateur experimentation, for the sole reward of sharing there efforts with people like us.

As for begrudging Mike the cost of the antenna, I sincerely hope I haven't implied that. If you compare the Hex with other antennas on the market, and see what you get for your money, it probably doesn't look so expensive, and I don't think many people would argue that the Hex is probably the best 'small' beam commercially available. However, $800plus is a fair whack of money, and out of the reach of many!

Finally, as for dipoles v hexbeams! We all know that the 5 band Hex is 5 stacked dipoles, so if dipoles cost $200 each, your saving a couple of hundred bucks and getting free reflectors thrown in to boot!!

Wishes to all

David, VK2DPD

Plagiarism is one of the greatest compliments.
----- Original Message -----
From: Robert Gerard
To: hex-beam@yahoogroups.com
Sent: Monday, May 13, 2002 2:30 AM
Subject: Re: [hex-beam] Price went up 140.00 bucks?

I don't want to pick any fights and I've never even met Mike Traffie (although I hope to in Dayton) so I have no axe to grind but I do think he developed and now sells a very interesting and high performing antenna. How many hundreds (thousands?) of hours did he spend in development work before he even got close to selling the first one? And how many hours does it take to hand make the parts for each one? And how much does it cost to advertise it and promote it? In short, I'd be very surprised to learn that Mike has made the price of a not that fancy car out of the whole enterprise, so suggesting he is somehow profiteering doesn't make sense to me. If there is the ability to homebrew--as DD puts it, "fairly detailed instructions on the site"--it is there for one reason and one reason only: because Mike spent a lot of time and effort developing and implementing what is a very complex technical challenge, particularly insofar as the the 5 band antenna is concerned. I should think the homebrewers (whom I take my hat off to) should thank him, not begrudge him a price that enables him to justify the effort. Indeed, I should think the homebrewers, with much more first hand knowledge of some of the complexities involved, would be the last to compare

developing the 5 band Hexbeam to selling a dipole. 73, Bob, K2WY
----- Original Message -----
From: "David Douglass" <vk2dpd@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, May 12, 2002 01:41
Subject: Re: [hex-beam] Price went up 140.00 bucks?

> I don't think there's any excuse for just observing, when they're is
fairly detailed instructions on the site as to how to build your own. I
can't speak for the price of components in the US, but what I've seen of the
fibreglass tubing I would be surprised if it should cost you more than $100
and a weekends work. As well as making a very fine antenna, you will also
have the added bonus of being able to tell the DX you made it yourself. I
find that's usually worth a couple of S-Points at least.
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> Regards
>
> David, VK2DPD
> ----- Original Message -----
> From: kb0adb
> To: hex-beam@yahoogroups.com
> Sent: Sunday, May 12, 2002 1:25 AM
> Subject: [hex-beam] Price went up 140.00 bucks?
>
>
> I was thinking about that 5 bander till now!! What gives?
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[Non-text portions of this message have been removed]

757. Re: [hex-beam] Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-13 12:49:46 UTC
From: Robert Gerard
Topic: 754 Message: 757

I'll be there. 73, Bob, K2WY
----- Original Message -----
From: "Brad Sumner" <bsumner@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, May 13, 2002 00:23
Subject: [hex-beam] Dayton Get Together?

> Hi Gang,
>
> Dayton is only a few days away now. Several weeks ago several of us
> discussed getting together on Friday at 11 AM in the "dining" area of
> Hara arena. I agreed to keep track of those planning on attending. Not
> many so far have responded, but here is the list
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> K?FUZ John
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>
> If anyone else will be there, please let us know. Hope to meet you all
> in person.
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758. Re: Linear Traps

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-13 14:50:38 UTC
From: dl7io
Topic: 734 Message: 758

```
>He clearly succeeded while no one else has
>come close based upon all of the homebrew reports.
Hey Barry,
take my design proposal and you will get for sure the same results
regarding gain and SWR. But even I'm modeling and building since
almost 1.5 years in my small sparetime.
;-) Holger
```

759. Re: Price went up 140.00 bucks?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-13 18:30:58 UTC
From: bbadger
Topic: 746 Message: 759

Also, compare to other 5 banders, not tri-banders.

--
Brian N0KZ

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Spring special price is $889. Costs money to build a quality product
> like the HX-5Bi, provide user support, attend hamfests like Dayton,
> etc. And they even to make a little profit, right? Look at the
> overall investment as well, i.e., tower/mast and rotor. You should
> be able to have the HX-5Bi up and running for under $1100.
>
> 73 de Barry - W4WB

760. Re: Dayton Get Together?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-13 22:13:36 UTC
From: kc0lcl
Topic: 754 Message: 760

Add me to the list

K0QV Barry in Missouri exKC0LCL

761. New Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-15 16:47:38 UTC
From: Eric Carling
Topic: 761 Message: 761

Its a good day - just received my Hexbeam (HX-5Bi). Only out of curiosity really, why isn't the hub pre-drilled with the thru-bolt hole? Without a vice to hold the centre plate, at the moment it seems an onerous task for the owner to carry out.

Eric G0CGL.

762. Re: New Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-15 17:35:06 UTC
From: w6hb
Topic: 761 Message: 762

Congratulations Eric. The hub for the pipe between the plate and rotator should have been drilled. The hub for the CPVC feed column should not be. Best of luck!

73 - Doug - W6HB

--- In hex-beam@y..., "Eric Carling" <g0cgl@t...> wrote:
>
> Its a good day - just received my Hexbeam (HX-5Bi). Only out of curiosity
> really, why isn't the hub pre-drilled with the thru-bolt hole? Without a
> vice to hold the centre plate, at the moment it seems an onerous task for
> the owner to carry out.
>
>
> Eric G0CGL.

763. Re: [hex-beam] New Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-15 17:40:32 UTC
From: Herbert Meiselman
Topic: 761 Message: 763

Eric:

I'm sure you will get 1,000 replies to your question below, so excuse this # 1,001.

A thought...do you have the hub upside down? My HX-5Bi does have a through hole for the support mast bolt but not for the plastic "pipe" which is for the center of the antenna. The support mast part of the hub also has two set screws for attaching the hub to the support mast.

When properly orientated, the round part of the "U" bolts for the 6 arms are on the top of the hub and the threaded parts of these "U" bolts face toward the support mast.

73s,

Herb K6HJM

At 04:47 PM 5/15/02 +0000, you wrote:

>Its a good day - just received my Hexbeam (HX-5Bi). Only out of curiosity
>really, why isn't the hub pre-drilled with the thru-bolt hole? Without a
>vice to hold the centre plate, at the moment it seems an onerous task for
>the owner to carry out.
>
>
>Eric G0CGL.
>
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033

(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

764. Re: [hex-beam] Re: New Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-15 18:20:19 UTC
From: Eric Carling
Topic: 761 Message: 764

Hi Doug and Herb

I'm seriously confused and concerned (no fault of yours, believe me I'm grateful for your help).

I'd be pleased to get your further claification before I approach Mike with the problem (which is not easy from the UK).

My understanding is this: my centre plate is upright when the round parts of the U-bolts are on top. The hub is for the feed column and has a black mark on it to align with a similar mark on the column. It has 2 allen screws only.

the underside has the U bolt nuts and the hub takes the water pipe stub mast It has 2 allen screws but it does not have a thru bolt hole.

I guess from you kind folks are saying is that is should be pre-drilled?

Eric.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 15 May 2002 17:36:53
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: New Hexbeam

Congratulations Eric. The hub for the pipe between the plate and rotator should have been drilled. The hub for the CPVC feed column should not be. Best of luck!

73 - Doug - W6HB

--- In hex-beam@y..., "Eric Carling" <g0cgl@t...> wrote:
>
> Its a good day - just received my Hexbeam (HX-5Bi). Only out of curiosity
> really, why isn't the hub pre-drilled with the thru-bolt hole? Without a
> vice to hold the centre plate, at the moment it seems an onerous task for
> the owner to carry out.
>
>
> Eric G0CGL.

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765. Re: New Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-15 18:44:54 UTC
From: w4wb
Topic: 761 Message: 765

--- In hex-beam@y..., "Eric Carling" <g0cgl@t...> wrote:
>
> Its a good day - just received my Hexbeam (HX-5Bi). Only out of curiosity
> really, why isn't the hub pre-drilled with the thru-bolt hole? Without a
> vice to hold the centre plate, at the moment it seems an onerous task for
> the owner to carry out.
>
>
> Eric G0CGL.

Eric,

I called Mike. He will be calling you. Hopefully he can reach you since they are heading out to Dayton shortly as well.

He doesn't put the hole in anymore. Folks with solid mast and other certain masts have had a hard time matching up holes. As I gather from him, it is wiser to drill the hole through the base plate and the mast you are planning to use at the same time so that the bolt will easily pass through. As I recall, I had to oversize the hole in my mast a little to get it to match up.

Hope this helps explain a bit, but am sure Mike will clear it up even more given that he can reach you. How about that for first-class customer service! He was there to answer questions for me when I was getting ready to put up my HX-5B.

Let us know how it performs after you have had a bit of play time with it.

73 de Barry - W4WB

766. Re: [hex-beam] Re: New Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-15 18:51:48 UTC
From: Herbert Meiselman
Topic: 761 Message: 766

Eric...

Now I am confused (my usual state!) since the hub should have been drilled for a through bolt for the support mast/pipe. Mine was, so I only had to drill the pipe that I use as the mast.

Maybe the problem is USA vs. UK "standards"...you guys drive on the wrong side of the road, drink the "real ales" somewhat warm, and still have strange measurement units (e.g., Whitworth sizes, BWG for wire, etc). Maybe Mike Traffie was unsure about the nominal normal size for the hole (hi hi).

Sorry for all of this...guess you are just holeless!

73s,

Herb K6HJM

At 06:20 PM 5/15/02 +0000, you wrote:
>Hi Doug and Herb
>
>I'm seriously confused and concerned (no fault of yours, believe me I'm
>grateful for your help).
>
>I'd be pleased to get your further claification before I approach Mike with
>the problem (which is not easy from the UK).
>
>My understanding is this: my centre plate is upright when the round
>parts of the U-bolts are on top. The hub is for the feed column and has a
>black mark on it to align with a similar mark on the column. It has 2 allen
>screws only.
>
>the underside has the U bolt nuts and the hub takes the water pipe stub mast
>It has 2 allen screws but it does not have a thru bolt hole.
>
>I guess from you kind folks are saying is that is should be pre-drilled?
>
>
>Eric.
>
>
>-------Original Message-------
>
>From: hex-beam@yahoogroups.com
>Date: 15 May 2002 17:36:53
>To: hex-beam@yahoogroups.com

>Subject: [hex-beam] Re: New Hexbeam
>
>Congratulations Eric. The hub for the pipe between the plate and
>rotator should have been drilled. The hub for the CPVC feed column
>should not be. Best of luck!
>
>73 - Doug - W6HB
>
>
>
>
>--- In hex-beam@y..., "Eric Carling" <g0cgl@t...> wrote:
> >
> > Its a good day - just received my Hexbeam (HX-5Bi). Only out of
>curiosity
> > really, why isn't the hub pre-drilled with the thru-bolt hole?
>Without a
> > vice to hold the centre plate, at the moment it seems an onerous
>task for
> > the owner to carry out.
> >
> >
> > Eric G0CGL.
>
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

767. Re: New Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-15 18:54:08 UTC
From: bbadger
Topic: 761 Message: 767

I can assure you that Traffie no longer drills them for you. HX-5bi
#203 came with no hole drilled.

--
Brian N0KZ

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> Now I am confused (my usual state!) since the hub should have been
drilled
> for a through bolt for the support mast/pipe. Mine was, so I only
had to
> drill the pipe that I use as the mast.

768. Re: [hex-beam] Re: New Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-15 19:15:26 UTC
From: Eric Carling
Topic: 761 Message: 768

Thanks for all the replies and thank you especially Barry for calling Mike who did telephone me which is really excellent service. Well the hole isn't pre-drilled anymore, as you say, for understandable reasons. No problem, I ll get it done.

I have to first put up a lightweight mast, just acquired, get a rotator and so on. My present antenna is a GAP Titan vertical so I think I'm going to see a big improvement (though I think the Titan is good as verticals go). So it will be a while before the beam goes up but you can bet I'll want to let everyone know how its going when that day comes.

73 es tnx agn

Eric G0CGL.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 15 May 2002 18:44:59
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: New Hexbeam

--- In hex-beam@y..., "Eric Carling" <g0cgl@t...> wrote:
>
> Its a good day - just received my Hexbeam (HX-5Bi). Only out of
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> really, why isn't the hub pre-drilled with the thru-bolt hole?
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> vice to hold the centre plate, at the moment it seems an onerous
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> the owner to carry out.
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>
> Eric G0CGL.

Eric,

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He doesn't put the hole in anymore. Folks with solid mast and other certain masts have had a hard time matching up holes. As I gather from him, it is wiser to drill the hole through the base plate and the mast you are planning to use at the same time so that the bolt will easily pass through. As I recall, I had to oversize the hole in my mast a little to get it to match up.

Hope this helps explain a bit, but am sure Mike will clear it up even more given that he can reach you. How about that for first-class customer service! He was there to answer questions for me when I was getting ready to put up my HX-5B.

Let us know how it performs after you have had a bit of play time with it.

73 de Barry - W4WB

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769. Re: New Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-15 19:48:34 UTC
From: w4wb
Topic: 761 Message: 769

FB Eric. I also have a Titan and like it a lot. However, I hope your experience is the same as mine. The HX-5B just blew the Titan away!

73 de Barry - W4WB

--- In hex-beam@y..., "Eric Carling" <g0cgl@t...> wrote:
> Thanks for all the replies and thank you especially Barry for calling Mike
> who did telephone me which is really excellent service. Well the hole isn't
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> it will be a while before the beam goes up but you can bet I'll want to let
> everyone know how its going when that day comes.
>
> 73 es tnx agn
>
> Eric G0CGL.
>

770. Re: Price went up 140.00 bucks?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-15 20:04:52 UTC
From: kb0adb
Topic: 746 Message: 770

-I guess after reading the reviews on eham and seeing the price, Then
the price on the website I went into sticker shock..I'll probably
pick one up later this summer Thanks

-- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@y..., "kb0adb" <kb0adb@y...> wrote:
> > I was thinking about that 5 bander till now!! What gives?
> > I enjoy all the tech talk and all the Installation photos all have
> > put
> > here!! But toooo rich for my blood, I'll just observe HiHi
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> Spring special price is $889. Costs money to build a quality
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> etc. And they even to make a little profit, right? Look at the
> overall investment as well, i.e., tower/mast and rotor. You should
> be able to have the HX-5Bi up and running for under $1100.
>
> 73 de Barry - W4WB

771. Re: [hex-beam] Re: Price went up 140.00 bucks?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-15 20:36:27 UTC
From: Eric Carling
Topic: 746 Message: 771

Well it hasn't been cheap for me: the hexbeam price + shipping to UK + customs duty = a lot of money.

BUT... my first choice was Hexbeam which I ordered from a UK company who were distributors but stopped being so just as I was placing the order. So my next move was to thoroughly research alternative antennas: Cushcraft MA5B Force 12 C-3SS, Optibeam 6-3M, Cubex 2 ele quad, SteppIR 2 ele yagi, TGM 2 ele mini-quad. I was resigned to having one of those and not a hexbeam.

In most cases I sought out manufacturers' specs, reviews and owner testimonals (I found UK owners of the MA5B, Force 12 and Cubex quad). I could not select any from that list above. My own personal reasons were (in same order as above): lack of performance on 17/12, ditto, too big, complicated feeding, too big, previous bad experience of similar hybrid quad (though in fairness, owner testimonials on eHam.net are very good for the TGM).

Hexbeam: good performance all bands, good size for small plots, lightweight hence able to save on mast/rotator. And as I have found out both prior to and since ordering, excellent service. Mike phoned me twice prior to the order and once since. Plus all the help you would ever need is right here with you guys. Worth every cent? Definitely.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 15 May 2002 20:07:12
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Price went up 140.00 bucks?

-I guess after reading the reviews on eham and seeing the price, Then the price on the website I went into sticker shock..I'll probably pick one up later this summer Thanks

-- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@y..., "kb0adb" <kb0adb@y...> wrote:
> > I was thinking about that 5 bander till now!! What gives?
> > I enjoy all the tech talk and all the Installation photos all have
> > put
> > here!! But toooo rich for my blood, I'll just observe HiHi
>
> Spring special price is $889. Costs money to build a quality
product
> like the HX-5Bi, provide user support, attend hamfests like Dayton,
> etc. And they even to make a little profit, right? Look at the
> overall investment as well, i.e., tower/mast and rotor. You should
> be able to have the HX-5Bi up and running for under $1100.

>
> 73 de Barry - W4WB

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[Non-text portions of this message have been removed]

772. Hex beam owner Dayton get together

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-15 20:45:23 UTC
From: k0trl
Topic: 772 Message: 772

I talked to Mike Traffie and he has agreed to put a sign in his booth announcing the get together at 11AM on Friday in the food concession area. As I remember from last year there are several tables as you go up the ramp to the east of the arena. Anyway, check the map at the Hexbeam booth and see y'all at 11 on Friday. Thundershowers are forcast so it may be a really good time to be inside.

73 and looking forward to meeting you all

Brad KØTRL

773. no success.... but great promotion

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-17 12:00:07 UTC
From: dl7io
Topic: 773 Message: 773

Hello @ll,
after beeing silent for a while I would like to give a few words to my last weekends tests. Sorry for delay but I am one of those poor guys who has to work for a handful other mouthes waiting at home....

Nevertheless I meanwhile did manage to read all the messages.

Where to start?
30/40 m operations... The modelling shows some gain (about 3 dBi, free space) but the feedpoint resistance is far from 50 Ohm. No real F/B less than 1 dB but good F/S. So if you have enough coax cable it is possible to tune the antenna. Even I made some QSO's on 30/40 but my HF-9V had about 1-2 S units better signals (same cable, 6 m distance, vertical on earth).

But back to the tests I did like to make.
Date and place were decided because we were about 20 people staying for a long weekend on Poel Isl. at the Baltic Sea cost. So I had enough helping hands to prepare everything.

I finally had 3 beams HX-5B #046 from late DL7VRO (rest in peace). My homebrew RW5P #0 which is very similiar to the Traffie beam and a new design RW5C #0. This is also a 5-band version but with a coax cable for feeding the band DE's and of course other dimensions for the elements.

2 things were on my plan:
1. check out the new design
2. gain measurements between the antennas

Since I'm working on different designs since about 1,5 years now all my friends (HAM or not) knows much about this kind of antenna. But not many had seen soemthing like this. So we had lots of interest from everybody about the mystery antenna...

The very bad news after arriving was, that my SWR meter was mechanically destroyed. So we had to use transceiver meters...

The antenna to measure was about 9m (30 ft) high. We had to rotate by hand(no rotor). The measuring antennas were a 2x2m dipole also on 9m high tower about 60m away and G5RV same height 80 m away. For measuring I used a selective millivolt meter for the 1-30 MHz frequency range.

The interesting thing and same with all antennas was: best gain at about 30 degree both directions and not at 0 degree!
We can't say anything about gain compared to a dipole. We only have

the differences between the antennas.

The differences are mostly between 1-2 dB which I would not take for absolute because we had nice wind and the antennas had some chance to move in the take off position.

The RW5C is sometimes hard to compare because it was out of band on 20m (14.65 best SWR) and 12/10m (25/27.75 MHz) with in those bands the SWR was not usable (1:3-15). With 50 m coax (H100, which is not bad and like RG213) no antenna tuner was needed! The old story...

For 12/10m the gain gets bigger at band end. This is in fact not correct. The absolute gain gets down as higher the frequency comes (see 20-17m). This will be an impact of the measuring dipole (2x2m) as we come closer to his resonant frequency. So one can only value the differences between the curves.

A jpg-file with the results is in the file section under dl7io.

I will do some more measurements at a friends place and will compare with singel band dipole to find out the gain compared to dipole. Im not awaiting much gain on 10/12 m. There the antenna is not much better than a dipole. Not on modelling and not with receiving/transmitting impressions by me and others here around. If I read comments like playing like my 6 element on 10m I only can wonder...

Of course we made some photos but we use the old way and need to develope and scan them before I download them.
Nevertheless there is a QSL card with a homemade beam in the photo section. We had 2 of those on Malta last year (9H3O) and made about 11 kQSO's. I'm on the left side.

We also made a couple of hundreds QSO's (DF0RR/p) this time and I guess I worked JH1NHD on CW.

More to come later.
regards Holger
PS. sorry for my pidgin englisch

774. Re: [hex-beam] no success.... but great promotion

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-17 12:28:08 UTC
From: Nigel Gunn
Topic: 773   Message: 774

Your English is fine, Holger. Far better than my German.

----- Original Message -----
From: "dl7io" <dl7io@...>
> PS. sorry for my pidgin englisch

<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
Nigel A. Gunn. 136 The Hide, Milton Keynes, MK6 4HP, UK
Tel +44 (0)1908 604044 or 07774 478270 (mobile)
e-mail nigel@... http://www.ngunn.net
Amateur radio stations G8IFF, M0NHF, KC8NHF
Member of RSGB, AMSAT-UK #182, Milton Keynes ARC
Flying Pig #385, Dayton ARA #2128, AMSAT-NA, ARRL
Supporter of MK Kings and Dayton Bombers Ice Hockey Teams
<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>

775. Re: [hex-beam] no success.... but great promotion

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-17 12:48:30 UTC
From: David Douglass
Topic: 773 Message: 775

Holger,

Very interesting finding's and many thanks for posting the information. I think many people will be interested to see your gain figures, when you get the chance to compare the antennas with a dipole. Although I haven't had a good look, I have never been able to find any real gain data on the Hex, with the exception of some modelling.

I wonder if you plotted your data to get a picture of the radiation pattern, as I would be interested to see what the Front-Back and Front-Side ratio looked like and if there was much of a lobe at the back?? Prior to playing about with Hex-Beams I had made a few Moxon Rectangles, which have great F/B ratio, and I feel that the Hex is nowhere near as good in this area (although structurally it is far superior, and has a slightly smaller foot-print)

I've been trying to talk my wife into going to the bottom of the street with a RF meter and taking some readings but she'll have none of it!!!!!!!

I don't know what your feelings are but looking at your data, I would have to draw the conclusion, that in general terms there is very little difference, from the point of view of gain, between the 3 beams??

Again, many thanks to you and your friends for the work - TOP STUFF!!

David, VK2DPD

PS. If I had a rotator I would be programming in a 30° off-set, but I turn my antenna by hand and guess the bearing, so don't suppose it will mattrer much!!
----- Original Message -----
From: dl7io
To: hex-beam@yahoogroups.com
Sent: Friday, May 17, 2002 12:00 PM
Subject: [hex-beam] no success.... but great promotion

Hello @ll,
after beeing silent for a while I would like to give a few words to
my last weekends tests. Sorry for delay but I am one of those poor
guys who has to work for a handful other mouthes waiting at home....

Nevertheless I meanwhile did manage to read all the messages.

Where to start?
30/40 m operations... The modelling shows some gain (about 3 dBi,
free space) but the feedpoint resistance is far from 50 Ohm. No real
F/B less than 1 dB but good F/S. So if you have enough coax cable it
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The differences are mostly between 1-2 dB which I would not take for absolute because we had nice wind and the antennas had some chance to move in the take off position.

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section. We had 2 of those on Malta last year (9H3O) and made about
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We also made a couple of hundreds QSO's (DF0RR/p) this time and I
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More to come later.
regards Holger
PS. sorry for my pidgin englisch

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[Non-text portions of this message have been removed]

776. Re: no success.... but great promotion

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-20 05:27:21 UTC
From: w4wb
Topic: 773 Message: 776

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
<snip>
> The interesting thing and same with all antennas was: best gain at
> about 30 degree both directions and not at 0 degree!
<snip>
regards Holger

Hi Holger,

The +/-30 degrees offset makes no sense to me. I can easily pinpoint a station with the heading dead-on the direction to the station and it is along the HX-5B axis of symmetry. I see a single maximum, not two spaced 60 degrees apart. And yes, I have played the game of having known stations send a carrier for me to map the pattern. I have noticed deep nulls about 30 degrees either side of the rearward, not forward, direction! That makes some sense too. My F/B on 20 m for instance is in the 18-25 dB range depending upon where I am in the band. I rather ponder what you are doing to have such results as you report. I look forward to your continued investigation.

73 de Barry - W4WB

777. Re: [hex-beam] Re: no success.... but great promotion

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-20 05:24:57 UTC
From: Tom Anderson
Topic: 773 Message: 777

Tom Anderson is out of the offce until Monday 6/3. If your email requires immediate IT attention, please call Chuck Welch at 404-651-8577

778. Re: [hex-beam] Re: no success.... but great promotion

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-20 11:47:01 UTC
From: David Douglass
Topic: 773 Message: 778

Hi Barry and all!

Hope you fella's all had a good time at Dayton and didn't get too wet, as predicted.

As for this 30º off-set, I've been trying it out here, but can't really notice a big deal of difference over about 70º or so (which I suppose is pretty right for a 2 element beam), although as I have to get out the chair and turn my beam by hand, I suppose signals could of dropped or risen etc etc. Also the radio here only has one of those S-Meters with LCD bars, which are pretty hopeless, why they couldn't stick to the old sort is beyond me!!

If it is correct, it would be pretty much be the ideal antenna for me, as I could point SP NA and SA, and LP EU at the same time. It gets to be a pain after a while having to get out my seat to turn the beam, when I'm calling to Europe and I get answered by someone in the US!!

Barry, I heard they were selling FT-817's at Dayton for $500, any truth in the rumours??

Regards to all from the frozen South

David, VK2DPD
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Monday, May 20, 2002 5:27 AM
Subject: [hex-beam] Re: no success.... but great promotion

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
<snip>
> The interesting thing and same with all antennas was: best gain at
> about 30 degree both directions and not at 0 degree!
<snip>
regards Holger

Hi Holger,

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73 de Barry - W4WB

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[Non-text portions of this message have been removed]

779. Dayton - Hex-Beams, FT-817 & FT-897

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-20 12:58:13 UTC
From: w4wb
Topic: 773 Message: 779

Hi David & All,

Yes, Dayton was a blast and the WX was good for those outside all but Friday afternoon. Maybe 30,000 people again. The Hamvention station was using a Hex-Beam and Mike said his booth was busy too.

The wildness went on with the FT-817 this year too. GigaParts was the low-price seller in the US before the show at $564 with free shipping. At the show, Yaesu provided the dealers with a special Dayton-only coupon that quickly allowed the price to drop to $499 within the first hours. Truck loads of the 817s were brought to the show and were selling like hot cakes. I can assure you that the dealers were making no more than a few dollars gross profit at this point. The low point last year was $640. I got to see little of the show because of working our W4RT Electronics booth, which specializes in FT-817 accessories. We were thankfully busy the entire three days! Thanks to Yaesu, HRO, AES, etc. for making it possible to have even more folks wanting out toys for the 817.

The Ten-Tec Orion was shown and will be ready to sell in September. Scott of Ten-Tec said that this is a firm date, perhaps. :-) Looks better than prior big Ten-Tec radios and should be a FB radio. Software is being written now. Think I will wait a while on this one till the bugs are out.

The FT-897 was shown and is a killer portable radio. It is bigger than the FT-100D and smaller than the FT-847. It is a 100 W rig on AC or runs 20 W on battery. It can have two 4.7 Ah NiMH packs internally (or an AC supply). It will include the new 60 m band as well. Also covers the WX unlike the 817. Covers 160m to 70 cm (same capabilities for satellites as the 817 it appears now). It will start shipping in July here and price is TBD, but is expected to be $1000 to $1500. My guess is $1350. This will be my next rig I think. Oh yes, without batteries, it weighs 2.7 pounds I believe they said. For more info on this radio, see the Yahoo! Group FT897.

David, perhaps you can get your wife to handle the rotor matter for you. Hmmmm.... never mind. ;-)

Yes, it is about 4 degs C here this morning. Rather a record for this date.

73 de Barry - W4WB

--- In hex-beam@y..., "David Douglass" <vk2dpd@b...> wrote:
> Hi Barry and all!
>

> Hope you fella's all had a good time at Dayton and didn't get too wet, as predicted.
>
> As for this 30º off-set, I've been trying it out here, but can't really notice a big deal of difference over about 70º or so (which I suppose is pretty right for a 2 element beam), although as I have to get out the chair and turn my beam by hand, I suppose signals could of dropped or risen etc etc. Also the radio here only has one of those S-Meters with LCD bars, which are pretty hopeless, why they couldn't stick to the old sort is beyond me!!
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> Barry, I heard they were selling FT-817's at Dayton for $500, any truth in the rumours??
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> Regards to all from the frozen South
>
> David, VK2DPD

780. Re: [hex-beam] Re: no success.... but great promotion

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-20 17:13:44 UTC
From: Bill ROWLETT
Topic: 773 Message: 780

Try under 500

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LAUNCH - Your Yahoo! Music Experience
http://launch.yahoo.com

781. Re: no success.... but great promotion

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-20 17:46:24 UTC
From: w6hb
Topic: 773 Message: 781

If your near field observation showed "higher" apparent gain at 330
and 30 degrees vice 0 degrees, does that substantiate the fact that
the antenna seems to work much better on long haul than local work as
Traffie has seen? Are we seeing convergence on long haul that is not
apparent with modeling or on a test range?

Doug - W6HB

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
> Hello @ll,
> after beeing silent for a while I would like to give a few words to
> my last weekends tests. Sorry for delay but I am one of those poor
> guys who has to work for a handful other mouthes waiting at home....
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> Nevertheless I meanwhile did manage to read all the messages.
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> Where to start?
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My
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> 1. check out the new design
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> Since I'm working on different designs since about 1,5 years now

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> my friends (HAM or not) knows much about this kind of antenna. But
> not many had seen soemthing like this. So we had lots of interest
> from everybody about the mystery antenna...
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> The very bad news after arriving was, that my SWR meter was
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> high tower about 60m away and G5RV same height 80 m away. For
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> More to come later.
> regards Holger
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782. Where did everybody go?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-20 20:54:16 UTC
From: Marty N5NW
Topic: 773 Message: 782

Saturday at Dayton was my introduction to the hex beam. Frankly, I didn't pay much attention until I got home and read the promotional literature. As I've just purchased a home, I began to look seriously at antennas. When I returned Sunday morning to ask some questions, lo and behold, the tables were empty! Guess the gang either had a very late night, or got an early start on the return trip.

Anyway, my questions might be better answered here. The literature discussed a bit about height and interference from other antennas. I plan on having an 80m dipole (off-center) that will be resonant on 40 as well, maybe a 30m dipole, and the 5B hex beam. I also have a dual-band VHF antenna (100"), along with a very small 2-m Squalo and 6m omni antenna to put on the tower. Ideally, I'd put the beam on top (at, say, 55 ft. or so) and have the dipole underneath at 50ft, with the dual band VHF Vertical and small VHF horizontal antennas around 40 ft.

Can someone help me out and describe how this would affect operation of the beam? I know the recommended height is much lower (35-40ft), but if the beam is on top (and with the rotor, it would need to be), that would place the other antennas much too low, in my opinion.

Thanks for the feedback.

de N5NW/8 (Marty)
Bellbrook, Ohio

783. Re: Where did everybody go?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-20 22:43:23 UTC
From: w4wb
Topic: 773 Message: 783

Hi Marty,

The Hex-Beam team had a problem with the mtor home that required them to leave early in order to meet other requirements. I heard that it was a massive brake problem. In any case, I was told that Traffie hated to leave early.

There are ways to mount the Hex-Beam lower on a tall tower. Call Mike and talk to him. IMO, you really want to have the antenna at 35-40'.

GL es 73,
Barry - W4WB

--- In hex-beam@y..., "Marty N5NW" <n5nw@n...> wrote:
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> pay much attention until I got home and read the promotional literature. As
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> small VHF horizontal antennas around 40 ft.
>
> Can someone help me out and describe how this would affect operation of the
> beam? I know the recommended height is much lower (35-40ft), but if the

> beam is on top (and with the rotor, it would need to be), that
would place
> the other antennas much too low, in my opinion.
>
> Thanks for the feedback.
>
> de N5NW/8 (Marty)
> Bellbrook, Ohio

784. Re: no success.... but great promotion

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-21 08:12:59 UTC
From: dl7io
Topic: 773 Message: 784

> <snip>
> > The interesting thing and same with all antennas was: best gain
at
> > about 30 degree both directions and not at 0 degree!
> <snip>
> regards Holger
>
> Hi Holger,
>
> The +/-30 degrees offset makes no sense to me. I can easily
pinpoint
> a station with the heading dead-on the direction to the station and
> it is along the HX-5B axis of symmetry. I see a single maximum,
not
> two spaced 60 degrees apart. And yes, I have played the game of
> having known stations send a carrier for me to map the pattern. I
> have noticed deep nulls about 30 degrees either side of the
rearward,
> not forward, direction! That makes some sense too. My F/B on 20 m
> for instance is in the 18-25 dB range depending upon where I am in
> the band. I rather ponder what you are doing to have such results
as
> you report. I look forward to your continued investigation.
>
> 73 de Barry - W4WB

Hello again,

same to me Barry. I have no idea why this happens. First we did not
take care of other directions but I wanted to make a 360° diagram
for
the gain to see F/B and F/S ratio and there we found that fact. We
changed back the other beams to the tower and got this confirmed. We
are talking about a small value that I'm sure you will not measure
with a far away test. But doing it with an selective millivolt meter
you can see changes of parts of an dB.
Even the modelling does not show this. Because we did not use a balun
i thought it may be only to one side (symetric/unsymetric) but we
found it to both sides.
Give me some days to prepare the 360° view.

As I did not take care on my girls that weekend I had to promise them
a "family only" weekend and we made a 3 days bycicle tour the last
weekend. That's why the late answer on your comments. But I guess you
also were busy with Dayton.
73 Holger

785. Dayton and the Congo

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-22 01:29:07 UTC
From: tomac14
Topic: 785 Message: 785

Hello to all:

Dayton 2002 was great. I met Mike Traffie, Barry Johnson (W4WB), Barry Baker (K0QV) and several other Hexbeamers at Dayton.

I spotted Mike Traffie climbing up the tower outside of the trailer to visit his hexbeam. Apparently Mike makes "house calls" for his hexbeams.

After I got back home, I immediately put my hexbeam to work on TN3W, the DXpedition in the Congo, and got them on 18 MHz on the second call.

73 and Good DHex to all,

Tom, N0YD "Yankee Doodle"

786. UNSCIENTIFIC TEST From Alan -K2ACB

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-24 14:30:11 UTC
From: acbdzw
Topic: 786 Message: 786

I do not contribute much to this site but from time to time I put my two cents worth of opinions. However before I pontificate I regret not going to Dayton this year. I had been there for the last 3 years but couldn't make it this year.I did have a few little things i wanted and my friends whom I normally drive there with were kind enough to get what i wanted and call me up on their cell phones several times from the hamvention to tell me if they found what i wanted or to ask me what price I was willing to pay. Hopefully next year i will be able to go and meet the Hex beam group there as well.

About two weeks ago I had a qso with Tony, IZ6BXV and Fred N2II. Tony is in central Italy and is using on a 60 foot tower an Italian made tribander and also an Italian made duo Bander for the WARC bands. Fred is on the Jersey shore I would say about 9o miles from my qth and I may have heard him on Ground wave. Fred and I were both using Icom 756 pro's and we were running barefoot for the test. Fred has a 90 foot tower and stacked arrays for 10 -20 meters including the warc bands. Our original band was 15 meters. Tony was coming in about 10 over 9 and I heard Fred about 5and 5. At the time Fred was using 3 over 3 at 37 feet and at 75 feet. Fred was using both antennas against my little roof mounted Hex Beam. Tony said I was 1 to 2 s units stronger than Fred. When he went to the antenna at 75 feet i was still slightly stronger but are signals were the same on his antenna at 37 feet. We then went to 17 meters and tried there. This time Tony said that Fred was stronger on both antennas and together by about an s unit. We then went to 20 meters. There with both antennas fFred was about 2 s units stronger. We then went back to 15 meters and I was again stronger at Tony's qth in Italy when Fred ran both antennas together. I was a little stronger on the top antenna and the samer on the
bottom.

What this goes to show is that conditions can be different from band to band and that the angle of radiation depending on the band and time of day can be very important concerning signal strength. Fred was a little surprised that my Hex Beam at least on 15 meters could out perform his stacked array.

This was my little unscientific experiment which indicates that the Hex Beam is a good little antenna and though it usually cannot out perform the big stacked arrays it gives them a run for the money and is a lot less expensive(HI). From Alan_K2ACB@...

787. Re: UNSCIENTIFIC TEST From Alan -K2ACB

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-24 18:34:23 UTC
From: w4wb
Topic: 786 Message: 787

--- In hex-beam@y..., "acbdzw" <acbdzw@y...> wrote:
> I do not contribute much to this site but from time to time I put
my
> two cents worth of opinions. However before I pontificate I regret
> not going to Dayton this year. <snip>
From Alan_K2ACB@a...

Hi Alan,

I regret you didn't make Dayton this year. It was very interesting
although I had little time to see the many booths since I was at my
booth (W4RT Electronics) doing my job. hi hi

Nice experiment. Points out a good truth about antennas and
propagation.

Have a safe and enjoyable holiday weekend (and everyone else too).

73 de Barry - W4WB

p.s. For those not in the US, just take a holiday too!

788. Hex-Beam Activity

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-05-30 17:23:59 UTC
From: w4wb
Topic: 788 Message: 788

Has everyone gone on vacation? :-)

My HX-5B is still working FB. Bands have not been too good here, but have had no trouble working R1MVI, TN3W, VK9LO, etc.

It is now planned to put up a HX-5B for Field Day as part of the local club's antenna arsenal. There will be a quad or two I believe. All will be on 40' towers. Will report on how the Hex-Beam performed.

73 de Barry - W4WB

789. 10m Hex under roof

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-04 07:45:15 UTC
From: lz2be
Topic: 789 Message: 789

Hi guys,

I'm going to built a 5 band Hex-beam. Most of the materials are ready, just the hub and the mast are still under construction. I spent lot of time to make computer models and to experiment with these models on 10m band. The most funny thing is that my antenna is under the roof, beaming to North, at 2.5m above the floor and wires are fixed with nails to the wooden beams of the roof! SWR measured by my FT890AT is less that 3:1 in 28.0-28.7MHz section and is getting higher at the end of the band. It is easy tuned by internal ATU to 1:1. Comparison of Hex to my Inv Vee show at least 3 S-units gain on RX/TX with West EU and Asia, some of stns could not hear me on Inv Vee. Stations from Africa (South direction) are without difference on both antennas.
My conclusion is to finnish ASAP that antenna!

Best 73 de Bob, LZ2BE

790. Re: 10m Hex under roof

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-04 18:03:15 UTC
From: w4wb
Topic: 789 Message: 790

--- In hex-beam@y..., "lz2be" <lz2be@y...> wrote:
> Hi guys,
>
> I'm going to built a 5 band Hex-beam. Most of the materials are
> ready, just the hub and the mast are still under construction. I
> spent lot of time to make computer models and to experiment with
> these models on 10m band. The most funny thing is that my antenna
is
> under the roof, beaming to North, at 2.5m above the floor and wires
> are fixed with nails to the wooden beams of the roof! SWR measured
by
> my FT890AT is less that 3:1 in 28.0-28.7MHz section and is getting
> higher at the end of the band. It is easy tuned by internal ATU to
> 1:1. Comparison of Hex to my Inv Vee show at least 3 S-units gain
on
> RX/TX with West EU and Asia, some of stns could not hear me on Inv
> Vee. Stations from Africa (South direction) are without difference
on
> both antennas.
> My conclusion is to finnish ASAP that antenna!
>
> Best 73 de Bob, LZ2BE

Great project Bob. Pse keep us posted. Are you putting your HB
outside or under the roof in some manner?

73 de Barry - W4WB

791. Re: 10m Hex under roof

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-06 07:56:44 UTC
From: lz2be
Topic: 789 Message: 791

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:

>
> Great project Bob. Pse keep us posted. Are you putting your HB
> outside or under the roof in some manner?
>
> 73 de Barry - W4WB

Hi Barry,

tks for the reply.
This under roof antenna is just an experiment to test my different computer models and it was the last and best one. The real 5 band antenna will be about 5m above the roof (17m above GND level).
We have LZ-HAM-meeting during the weekend, where I'm going to buy an 8m mast.

73 es GL de Bob, LZ2BE

792. cold end of driven element

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-11 10:32:44 UTC
From: on4ccw
Topic: 792 Message: 792

Hi all, my homebrew W-beam is progressively (and slowly..) getting ready. (pfff, anywone wants a wife two kids and a house who needs work???..... just kidding)I wanted to know want was ment with the cold side of the driven emelent (message 738)I s this the side that is fed with the mass of the coax??
When ready i'll post foto's and i have constructed a expandeble mast(33 feet, 11 meters) for about 100 US $ smallest dimension : 12 feet , 4 meters

Bye for now
Peter

793. Re: cold end of driven element

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-11 12:34:45 UTC
From: w4wb
Topic: 792 Message: 793

--- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> Hi all, my homebrew W-beam is progressively (and slowly..) getting
> ready. (pfff, anywone wants a wife two kids and a house who needs
> work???..... just kidding)I wanted to know want was ment with the
> cold side of the driven emelent (message 738)I s this the side
that
> is fed with the mass of the coax??
> When ready i'll post foto's and i have constructed a expandeble mast
(
> 33 feet, 11 meters) for about 100 US $ smallest dimension : 12
feet ,
> 4 meters
>
> Bye for now
> Peter

Hi Peter,

Good news on your progress. Yes, the cold side is considered the
coax shield side.

73 de Barry - W4WB

794. P5/4L4FN will be HEXing soon

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-11 12:42:41 UTC
From: w4wb
Topic: 794 Message: 794

A new 10 & 15 m Hex-Beam is on its way to Ed, P5/4L4FN. He will pick it up on the 22nd in China if nothing goes wrong in the shipping. Bruce, KK5DO, his QSL manager, is also sending a rotor and rotor cable. He will also recieve the WARC add-ons for his vertical. He has a lot of trouble with QRM from JAs. The Hex-Beam's F/B and F/S will help him when working NA and EU. With his new 1 kW amp, Ed should be able to work a lot more people now.

When will it be up and working? No idea, but I'm hoping early July. Ed also has a 10-10 number and plans to be on next fall and winter when 10 m picks up again (we hope).

73 de Barry - W4WB

795. Re: cold end of driven element

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-12 10:37:42 UTC
From: on4ccw
Topic: 792 Message: 795

Thanks Barry (as you see , some of us are not on holiday...hi (soon
that will change!)
I suppose it doesn't matter which side of the radiator you connect
the shield/core of the coax to?

Peter
--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:

> --- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> > Hi all, my homebrew W-beam is progressively (and slowly..)
getting
> > ready. (pfff, anywone wants a wife two kids and a house who
needs
> > work???..... just kidding)I wanted to know want was ment with the
> > cold side of the driven emelent (message 738)I s this the side
> that
> > is fed with the mass of the coax??
> > When ready i'll post foto's and i have constructed a expandeble
mast
> (
> > 33 feet, 11 meters) for about 100 US $ smallest dimension : 12
> feet ,
> > 4 meters
> >
> > Bye for now
> > Peter
>
> Hi Peter,
>
> Good news on your progress. Yes, the cold side is considered the
> coax shield side.
>
> 73 de Barry - W4WB

796. Re: cold end of driven element

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-13 03:36:24 UTC
From: w4wb
Topic: 792 Message: 796

--- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> Thanks Barry (as you see , some of us are not on holiday...hi (
soon
> that will change!)
> I suppose it doesn't matter which side of the radiator you connect
> the shield/core of the coax to?
>
> Peter

Correct; however, run the coax down the cold side between the driven
and reflector elements.

73 de Barry - W4WB

797. error in file reflected W design

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-14 07:49:13 UTC
From: on4ccw
Topic: 797 Message: 797

Hi all, i think that there is an error in this file on the page with the elements data : A=11 cm, B = 28 cm. Shouldn't A be bigger then (B-A)? The drawing is correct. Maybe the numbers just have to be switched...
Bye
Peter

798. Re: error in file reflected W design

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-14 09:28:00 UTC
From: dl7io
Topic: 797 Message: 798

--- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> Hi all, i think that there is an error in this file on the page
with
> the elements data : A=11 cm, B = 28 cm. Shouldn't A be bigger then
(
> B-A)? The drawing is correct. Maybe the numbers just have to be
> switched...
> Bye
> Peter

Hello Peter,
yes, there is a mistake.
Change reflecter & driven element and you are right.
A-difference between spreader (center) and the end of wire element of
the reflector.
B-difference between connectors for both end isolators, means
director and radiator (position where the wires end).
B-A difference between spreader (center)and the end of wire element
of the radiator.

regards Holger

799. Re: error in file reflected W design

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-16 06:35:10 UTC
From: on4ccw
Topic: 797 Message: 799

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
thanks Holger. I'm making mine according to your dimensions; but not
so estetical as yours i'm afraid. Had a lot of trouble finding the
right materials. I managed to put the feeding line inside the hub but
it is not easy!.
I've taken a holiday tommorow to work further on it.
(real ham spirit...hi)
Bye
Peter

> --- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> > Hi all, i think that there is an error in this file on the page
> with
> > the elements data : A=11 cm, B = 28 cm. Shouldn't A be bigger
then
> (
> > B-A)? The drawing is correct. Maybe the numbers just have to be
> > switched...
> > Bye
> > Peter
>
> Hello Peter,
> yes, there is a mistake.
> Change reflecter & driven element and you are right.
> A-difference between spreader (center) and the end of wire element
of
> the reflector.
> B-difference between connectors for both end isolators, means
> director and radiator (position where the wires end).
> B-A difference between spreader (center)and the end of wire element
> of the radiator.
>
> regards Holger

800. Re: error in file reflected W design

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-16 18:58:43 UTC
From: dl7io
Topic: 797 Message: 800

Hello Peter,
hope youwill have a successful day... I know it takes a lot of time
especially the first time.
If you will have a look into the photosection under DL7IO you will
find also photos of my actual version with the feeding system inside
and the coax female at the bottom.
Let us know how it works!
Holger

> thanks Holger. I'm making mine according to your dimensions; but
not
> so estetical as yours i'm afraid. Had a lot of trouble finding the
> right materials. I managed to put the feeding line inside the hub
but
> it is not easy!.
> I've taken a holiday tommorow to work further on it.
> (real ham spirit...hi)
> Bye
> Peter
>

801. Re: error in file reflected W design

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-16 20:57:14 UTC
From: on4ccw
Topic: 797 Message: 801

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
Hi Holger, i'm really impressed with your result(and now i'm not
sure i'll post my foto's when its finished...hi)How the ... did you
manage to connect everything so smooth... I had to make holes at each
stage to acces the connection - points. I tried to pré-connect
everything on a plastic "thing" and then slide it down the hub , with
the contactpoints right in front of the holes pré-drilled in the hub,
but it didn't turn out the way i wanted.
So please let me know, and also the "bottom"feeding. Does the coax
run down in the hub, or did you just connect at the bottom of the low
empidance feedline???
once again,wonderschon!(where are the double points when i need
them...)
Peter
Peter
> Hello Peter,
> hope youwill have a successful day... I know it takes a lot of time
> especially the first time.
> If you will have a look into the photosection under DL7IO you will
> find also photos of my actual version with the feeding system
inside
> and the coax female at the bottom.
> Let us know how it works!
> Holger
>
> > thanks Holger. I'm making mine according to your dimensions; but
> not
> > so estetical as yours i'm afraid. Had a lot of trouble finding
the
> > right materials. I managed to put the feeding line inside the hub
> but
> > it is not easy!.
> > I've taken a holiday tommorow to work further on it.
> > (real ham spirit...hi)
> > Bye
> > Peter
> >

802. center hub

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-17 13:55:26 UTC
From: dl7io
Topic: 797 Message: 802

Peter,
this version shows the design with coax feeding between the elements.
But untill I'm not happy with the results. It is fine for 20/17/15m
but SWR on 10/12m was not so good. 10/12m are very sensitive and
influencing each other if you change the length of one.

But back to the hub. I prepared the cables for inside mounting. I
used messing screws M4x20mm and M4x16mm. They are ironed to the wire
to fix them. In the hub I have 3 holes of 6mm diameter. 2 for the
radiator and 1 for the reflector.
By the help of a small Screw driver and a lamp shining into the hub
from the bottom I fixed the screws to the holes. Sounds easy but took
me 2.5 hours ;-) Start with 10m!
The reflector screws were easy (5 min) by the help of a tool fixing
the srew to get it into the hole. This 'tool' was made from 3mm thick
and 80 cm long copper wire.
My center hub is also custom made like the spreaders. It is from
fiberglas (1.5mm thick) and has 35 mm outer diameter. It is stronger
but more light than the pvc tube from a hexbeam and has more place
inside because the pvc tube has a bigger wall. So this makes it
easier to mount something inside.
regards Holger

803. Hex-Beam on the Move

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-18 23:53:13 UTC
From: w4wb
Topic: 803 Message: 803

The 10-15 m Hex-Beam safely arrived in Beijing yesterday. If all goes well, Ed will pick it up (plus a rotor and some items for the Butternut vertical for the WARC bands) on the 22nd while on a business trip.

No definite date is known for when he will have the Hex-Beam operational. More updates to come.

Thanks again to those that helped make this support for Ed possible.

73 de Barry - W4WB

804. Field Day

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-22 03:31:06 UTC
From: w4wb
Topic: 804 Message: 804

Hi Folks,

Field Day starts at 1800Z on Saturday and runs basically for 24 hours. This year, all Region II stations can submit logs, BUT all DX stations can make QSOs that count. So all you in Regions I and III, help us out and give us points. An interesting aspect to this event is that all contact carry the same value.

We erected a HX-5B as one of five HF stations (plus 6 m and satellite) this afternoon. I (and my team) will be using it primarily on 20 m SSB, but may jump to other bands if needed. Hope you will listen out for our stations --- K4BFT, that's Big Fat Turkey --- and give us a call!

The other beam antennas for 20 m and up are two-element quads plus some dipoles, etc. When I offered the use of the Hex-Beam (thanks to the loan by Mike), the group jumped at it. Most of the guys have seen/heard the results I have obtained with my HX-5B. :-) I figure we will have some converts before the weekend is over.

73 de Barry - W4WB

806. Re: Field Day - Results!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-24 04:08:08 UTC
From: w4wb
Topic: 804 Message: 806

Field Day 2002, is now history and the HX-5B performed very well for us at the 20 m SSB station of K4BFT - Big Fat Turkey. Over 1,000 contacts were made; however, even more would have been made if only "experienced" operators had been used. As station manager, I would allow any one that came by the station to operate for a while as part of the training aspect of the exercise that Field Day is all about. This lowered the contact rate of course.

The operating conditions in Field Day are most interesting. My approach is to find a frequency and "park" there and do the CQing. Often other CQing stations would drift to within 1 or so kHz from me up and down. With the propagation being rather unstable, the Hex-Beam gave us a real edge in being the big signal in different areas and for often mitigating the nearby stations. For examples, when the 8's starting coming in, I moved the beam towards that area and attracted even more of them. When I would start hearing 3's call, around goes the HX-5B and up went the rate on the 3's. And so on. Other operators began to get the idea and their rate went up by using the characteristics of the HX-5B to our advantage.

My only disappointment was that we had to mount the 20 m antenna elements of the HX-5B at about 55' AGL since the towers were each 50' tall. I had been told they were 40', but guess the fellow's memory was fuzzy. :-) Having the antenna at this height causes maybe a 15 dB dip in the elevation pattern at 37 degs (in the model at least) and lowers the radiation angle. Due to the manner that the towers are arranged for fast emergency erection, the height could not be changed. If we do it again, one tower assembly will be modified. Did this make a difference? You bet. With the density of stations, I could notice getting a "deadish" band, i.e., I was working stations close to me and farther away from me with a gap in between them for the most part. This was a weird experience that I would not have normally noticed, but since I was aware of the issue of having the antenna a bit too high, I was more attentive the nature of the station locations we worked. I also should note that I swept the HX-5B with the trusty MFJ 259B and the antenna showed a 1.4:1 SWR at 14.00 and 1.2 or less over the phone band. I used a 10-bead ferrite (Type #43 since that's what I had) BALUN located just under the base plate of the antenna. Feed line was about 150' long. All of the other bands looked FB as well. This impressed the other guys a lot, particularly after I swept some of the other antennas. We found one that required a bit of quick attention before the event started.

The most common question I was asked by the 50+ people attending was why do you have a rotor on that omnidirectional antenna. When I explained that it is a beam, eyes crossed. Due to the significant

interest generated, I was asked to give a program on the Hex-Beam at the HARC in the near future. This is good! A modest number wanted to know how to contract Traffie too. Those that operated the station left it with a very positive impression of the Hex-Beam.

I think the final question that many people asked me after the Field Day was over says it all. "Do you think we can use the Hex-Beam again next year!"

Off to get some serious rest now.

73 de Barry - W4WB

807. Re: Field Day - Results!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-24 13:27:11 UTC
From: dl7io
Topic: 804 Message: 807

Hello Barry,
congratulation on your good promotion!
I had to work on Saturday so I did not made any QSO this weekend. But on Sunday I started to rebuild one of my beams. The new tubes I got will get the design with low impedance line inside the centerhub. It took me 5 hours on Sunday to prepare the cabling and to mount everything inside the hub (including the coax cable). So my feeding is from the bottom and the coax is going inside the center support.
I have to get ready because next week I'm starting for a 3 weeks long holiday trip around Europe (F, EA, ZB2, CT, C31) and will use the radio and the beam from time to time.

Did we got any feedback from ON4CCW and LZ2BE?

best regards Holger, DL7IO

PS. The XE1??? who sent me an e-mail a couple of days ago. I could not come back to you because the mail-address was wrong. Send me your e-mail address again, please.

808. Field Day

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-24 15:08:48 UTC
From: kteb7355
Topic: 804 Message: 808

Well, another one done!!

Propagation was horrible down in the Florida Keys.
Running QRP on PSK and SSB was really hard. Weather,
atmospherics, and the noise level was terrible.

Thanks to Barry for his products which made operating
easier. The Hex Beam was a winner. It was fantastic
on the bands and got me through when I thought I would
not be able to be heard. I even worked "Big Fat Turkey"
on 20M SSB.

It seemed that we only getting one hop range to the signals.
The bands were in and out, mostly out for us.
No wonder NASA landed the shuttle in CA. Down here they wouldn't
have known they were coming!!!!!

Great time and learned a lot for the next time.

Karl T. Beilmann
K0KTB
Florida Keys ARC

809. Re: Field Day - Results!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-24 18:26:45 UTC
From: w4wb
Topic: 804 Message: 809

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
> Hello Barry,
> congratulation on your good promotion!
> I had to work on Saturday so I did not made any QSO this weekend.
But on Sunday I started to rebuild one of my beams. The new tubes I
got will get the design with low impedance line inside the centerhub.
It took me 5 hours on Sunday to prepare the cabling and to mount
> everything inside the hub (including the coax cable). So my feeding
> is from the bottom and the coax is going inside the center support.
> I have to get ready because next week I'm starting for a 3 weeks
long holiday trip around Europe (F, EA, ZB2, CT, C31) and will use
the radio and the beam from time to time.
>
> Did we got any feedback from ON4CCW and LZ2BE?
>
> best regards Holger, DL7IO

Hi Holger,

Most interesting work you are doing. Hope you can share some photos
of it! Am also looking forward to hearing it on the air. Have a
good vacation. No feedback from either as I recall.

73 de Barry - W4WB

810. Re: Field Day - Results!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-25 12:08:14 UTC
From: lz2be
Topic: 804 Message: 810

Hi Holger,
nothing new here. I'm still waiting a local workshop to finnish the
hub and mast support.
Did you tried to feed the antenna from the bottom side of the twin
line (10m)? I did some computer modeling and there is a very small
difference between top and bottom feeding. If you wish I can send you
both data files.
I hope to hear you when you are on holiday!
73 de Bob, LZ2BE

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
> Hello Barry,
> congratulation on your good promotion!
> I had to work on Saturday so I did not made any QSO this weekend.
But
> on Sunday I started to rebuild one of my beams. The new tubes I got
> will get the design with low impedance line inside the centerhub.
It
> took me 5 hours on Sunday to prepare the cabling and to mount
> everything inside the hub (including the coax cable). So my feeding
> is from the bottom and the coax is going inside the center support.
> I have to get ready because next week I'm starting for a 3 weeks
long
> holiday trip around Europe (F, EA, ZB2, CT, C31) and will use the
> radio and the beam from time to time.
>
> Did we got any feedback from ON4CCW and LZ2BE?
>
> best regards Holger, DL7IO
>
> PS. The XE1??? who sent me an e-mail a couple of days ago. I could
> not come back to you because the mail-address was wrong. Send me
your
> e-mail address again, please.

811. Re: Field Day - Results!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-26 11:00:24 UTC
From: on4ccw
Topic: 804 Message: 811

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
Hi all, good going Barry!!
Well i have changed my spreaders for thr third time!!!This time with
bamboo and it looks better now. I just have some problems trying to
get the wires symmetric. Will be continued...
Bye
Peter
> Hello Barry,
> congratulation on your good promotion!
> I had to work on Saturday so I did not made any QSO this weekend.
But
> on Sunday I started to rebuild one of my beams. The new tubes I got
> will get the design with low impedance line inside the centerhub.
It
> took me 5 hours on Sunday to prepare the cabling and to mount
> everything inside the hub (including the coax cable). So my feeding
> is from the bottom and the coax is going inside the center support.
> I have to get ready because next week I'm starting for a 3 weeks
long
> holiday trip around Europe (F, EA, ZB2, CT, C31) and will use the
> radio and the beam from time to time.
>
> Did we got any feedback from ON4CCW and LZ2BE?
>
> best regards Holger, DL7IO
>
> PS. The XE1??? who sent me an e-mail a couple of days ago. I could
> not come back to you because the mail-address was wrong. Send me
your
> e-mail address again, please.

812. Hex Beam # 147

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-26 14:44:38 UTC
From: midislander
Topic: 812 Message: 812

Purchased in June/01, my HX5Bi is now up and running!!!
Great signal reports i.e. from UK "Your signal is oustanding, solid 5 by 9 throughout, this from G3NAE/P who called me after I had signed with G4VPC. I am very pleased with this incredible performance.\
Although I have managed the odd contact to the UK with a doublet and open wire feeder, it was always difficult to make such contacts from Vancouver Island.
One very happy camper.

de Gordon VA7XG

813. Re: Hex Beam # 147

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-27 03:40:08 UTC
From: w6hb
Topic: 812 Message: 813

Congratulations Gordon! After 19 years using a tuned feeder fed doublet, the Hex is a pleasant change to say the least. I had 3 element monoband yagis years ago, but I have never had something as small as the 5Bi that does so much so well. I look forward to finding you on the air. I have been keeping a sked at 0200Z with N6UB/KL7 on 14165. Maybe you can join us.

73 - Doug - W6HB

--- In hex-beam@y..., "midislander" <va7xg@r...> wrote:
> Purchased in June/01, my HX5Bi is now up and running!!!
> Great signal reports i.e. from UK "Your signal is oustanding, solid
> 5 by 9 throughout, this from G3NAE/P who called me after I had
> signed with G4VPC. I am very pleased with this incredible
> performance.\
> Although I have managed the odd contact to the UK with a doublet and
> open wire feeder, it was always difficult to make such contacts from
> Vancouver Island.
> One very happy camper.
>
> de Gordon VA7XG

814. Re: [hex-beam] Re: Hex Beam # 147

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-27 03:54:41 UTC
From: Gordon
Topic: 812 Message: 814

Thanks Doug, I will look for you guys on 14.165
73 de Gordon VA7XG/VE7SGS
----- Original Message -----
From: w6hb
To: hex-beam@yahoogroups.com
Sent: Wednesday, June 26, 2002 8:40 PM
Subject: [hex-beam] Re: Hex Beam # 147

Congratulations Gordon! After 19 years using a tuned feeder fed doublet, the Hex is a pleasant change to say the least. I had 3 element monoband yagis years ago, but I have never had something as small as the 5Bi that does so much so well. I look forward to finding you on the air. I have been keeping a sked at 0200Z with N6UB/KL7 on 14165. Maybe you can join us.

73 - Doug - W6HB

--- In hex-beam@y..., "midislander" <va7xg@r...> wrote:
> Purchased in June/01, my HX5Bi is now up and running!!!
> Great signal reports i.e. from UK "Your signal is oustanding, solid
> 5 by 9 throughout, this from G3NAE/P who called me after I had
> signed with G4VPC. I am very pleased with this incredible
> performance.\
> Although I have managed the odd contact to the UK with a doublet and
> open wire feeder, it was always difficult to make such contacts from
> Vancouver Island.
> One very happy camper.
>
> de Gordon VA7XG

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hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

815. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-06-29 20:28:10 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 815

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /Publications/airbalun.html
Uploaded by : w4wb <w4wb@...>
Description : K1TTT Air Balun Technical Note

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/Publications/airbalun.html

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

w4wb <w4wb@...>

816. ZB2/DL7IO July 9-12

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-02 15:08:21 UTC
From: dl7io
Topic: 816 Message: 816

Dear friends,
before I leave you tomorrow for the next 3 and a half weeks I wanted to let you know the data for the probably most interesting place I'll be radioing from. I guess we arrive in Gibraltar at late July the 9th and start operating at local night. The radio is a FT 890 and antennas are a HF9V & a reflected W beam with 8m fiberglas mast, made from 2 surf masts.
We also will be heard from CT, EA, and F mostly at local evening/night time.
We are 3 HAM's all together (DL7IQ-my better half-Birgit, DJ7TO-Olaf and me).
Hope to hear you,
Holger

817. another homebrewed reflected W-beam in the air

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-03 11:04:46 UTC
From: on4ccw
Topic: 817 Message: 817

Hi all,
it is finnally there : my beam mounted on a selfmade variabel (4-10meters) mast. In the files section you can find the swr readings maesured with a analyser (borrowed from Marc ON1DO thanks!!)
The antenna was at a hight of 10 meters (33feet) and as you can see it is for most of the bands a bit to low on freq. .10 meters is the worst result, but not to bad.
for modification i would like to use the following procedure :
loosening the connectors on the spreaders and bringing them downwards
make the radiator smaller with the formule :
actual lenght X measured freq
---
wanted freq
after schortening i would push the connectors back on the spreaders upwards untill i have a good tension on the wires.
This way, the lenght of the reflector is not changed!!is this correct?
or should the reflectors be shortened in the same way?(keeping the whole horizontal)
spacing will remain the same as i will not touch them;
The lengthvalues are taken from DL7IO , so is the feeding system.
foto's will be posted in the future
anyone ideas why 10 meters isn't so low on swr like the rest?change in spacing for solution?
btw this is my first attempt to build a beam, so it's kind of new for me.And another remark : i used bamboo for the spreaders and solid cupperwire cause it was the only material i could find at a proper price.The bamboo will be treated after tuning is finished.

well, looking forward to your reactions!(still haven't finished painting the woodwork on the house...BUT the wife said the antenna didn't look to bad !!!???(for an antenna that is...;-))

818. Re: another homebrewed reflected W-beam in the air

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-03 16:27:54 UTC
From: dl7io
Topic: 817 Message: 818

Peter,
congrats! It does not look that bad. Did you use isolated wire? I think you have some kind of isolation. That may cause in "to long" looking wires. Be careful while cutting them and cut the same length on all ends because the difference between radiator and director is only 2-4%. Start with 20 m and measure first. Be extremly careful with 12/10m. You don't have to cut the wire. Make a knot first to check the length. The best gain is where the SWR comes down under 1:2 and not with the best SWR!!! So try to get a SWR of 1:2 at the band beginning (CW-portion).

god job!
Holger

819. Re: another homebrewed reflected W-beam in the air

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-03 20:48:33 UTC
From: on4ccw
Topic: 817 Message: 819

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
thanks for the info and have a good trip! i'll hope i will be ready
to reply but my 12volt supply for the transmitter broke down
(speaking of bad timing!!) fortunetely i can proceed tuning with the
analyser. I'll shorten the wires without cutting. At the end of each
wire there is a clamp device on wich the wires are bended 180 degrees
so i can always reverse the process. the pictures make it clear . I
used a copperwire wich has a thin layer of vernish, that's all.
once again , thanks and bring some sunshine with you when you return
to this gray area on the globe!!
Peter
> Peter,
> congrats! It does not look that bad. Did you use isolated wire? I
> think you have some kind of isolation. That may cause in "to long"
> looking wires. Be careful while cutting them and cut the same
length
> on all ends because the difference between radiator and director is
> only 2-4%. Start with 20 m and measure first. Be extremly careful
> with 12/10m. You don't have to cut the wire. Make a knot first to
> check the length. The best gain is where the SWR comes down under
1:2
> and not with the best SWR!!! So try to get a SWR of 1:2 at the band
> beginning (CW-portion).
>
> god job!
> Holger

820. swr data HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-04 10:58:36 UTC
From: on4ccw
Topic: 820 Message: 820

Hi all,
has anyone taken measurements on the hexbeam ? The results on the hex-beam website seems not realistic to me (a real flat curve)
Anyone care to post their results??
Thanks!
Peter

821. Re: swr data HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-05 01:20:42 UTC
From: w4wb
Topic: 820 Message: 821

--- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> Hi all,
> has anyone taken measurements on the hexbeam ? The results on the hex-
> beam website seems not realistic to me (a real flat curve)
> Anyone care to post their results??
> Thanks!
> Peter

Hi Peter,

Look in the Photos section of this list and you will find the data from W6HB (ex-WB6ROH). Also, look at the data taken for the W4WB/W4RT Hex-Beam at www.nadxc.org. Look at the LongPath newsletters, December 2001, page 9. You can get strange results if you don't measure the SWR correctly. Suggest that you use a current balun of either 8-10 ferrite beads over RG-8/213 or make a coax version (maybe 7 turns with 100 mm inside diameter, single layer).

GL es 73,
Barry - W4WB

822. ZB Trip

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-05 09:45:28 UTC
From: David P Douglass
Topic: 822 Message: 822

Holger,

Hope you have a good trip and I can manage to work you on a few bands from ZB, which will all count for my 5Band CCC Award.

Regards

David, VK2DPD

PS I wonder if anyone knows whether the guys on CY9 are using a Hex-Beam. That was the initial plan, but the info said they would also be operating a few stations and doesn't seem to be the case??

823. CY9DH

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-05 18:41:08 UTC
From: w4wb
Topic: 822 Message: 823

> David, VK2DPD
>
> PS I wonder if anyone knows whether the guys on CY9 are using a Hex-
Beam.
> That was the initial plan, but the info said they would also be
operating a
> few stations and doesn't seem to be the case??

Hi David,

I asked Mike this question and he said that he had heard the same
rumor, but no solid data. Next time I work them, will ask the
question. Their signal here has not been remarkable except on 40 m.
Have worked CY9DH on 40, 20, 17, and 15 m. No copy on 30, 12 or 10 m
as of yet. Of course, it seems they are on those bands when the
propagation is nil between the two QTHs.

Guess you are shoveling snow by now. ;-) Hot and humid here.

73 de barry - W4WB

824. Re: swr data HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-05 22:55:48 UTC
From: on4ccw
Topic: 820 Message: 824

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
thanks Barry,i've checked it out.
i'll make a balun as posted on this site (K1TTT air balune) and
remeasure. I'm just afraid when my swr is to low, i won't get proper
gain.The advice Holger gave me(1.2 on the beginning of the band) ,
is a bit different as what you see on the commercial hexbeam. And
when i look at the results af David (btw , thanks David for the info
you posted!)it's also different compared to the commercial, Holger
and my measurements.(i'm even suprised a can get the swr so low...)
For several bands , the commercial hex uses the left flank of the swr-
curve...Well, i'm not an antenna - goeroe but i'm having fun trying
it out.Hopefully i'll be broadcasting in a week or two!(it will be my
first trans-continental QSO...and it would be nice if i could work
one of you guys)(yes, i'm still a bit green behind my ears= Belgian
expression meaning unexperianced)
I'll post my results of the swr with balun when i'm ready, but a lot
of work still has to been done.btw, it is supposed to be summer here,
but i think somebody up a bove made a mistake...;-)
Peter
> > Hi all,
> > has anyone taken measurements on the hexbeam ? The results on the
> hex-
> > beam website seems not realistic to me (a real flat curve)
> > Anyone care to post their results??
> > Thanks!
> > Peter
>
> Hi Peter,
>
> Look in the Photos section of this list and you will find the data
> from W6HB (ex-WB6ROH). Also, look at the data taken for the
> W4WB/W4RT Hex-Beam at www.nadxc.org. Look at the LongPath
> newsletters, December 2001, page 9. You can get strange results if
> you don't measure the SWR correctly. Suggest that you use a
current
> balun of either 8-10 ferrite beads over RG-8/213 or make a coax
> version (maybe 7 turns with 100 mm inside diameter, single layer).
>
> GL es 73,
> Barry - W4WB

825. Re: swr data HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-05 23:08:19 UTC
From: w6hb
Topic: 820 Message: 825

Hi Peter..... The SWR on my HX-5Bi is lower than the plot on the site shows and is highest on 10 meters (1.6:1.0). Please do not assume that a low VSWR automatically means poor gain. Barry, Herb and I have all found that not to be the case. When you are ready to test that beast, drop me an E-mail to "w6hb@..." where the PC in on line if I am in the shack. Most nights from 0200Z to 0600Z or later on Saturdays and Sundays I am available and the band has been open to Europe. 73 - Doug - W6HB

--- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> --- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> > --- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> thanks Barry,i've checked it out.
> i'll make a balun as posted on this site (K1TTT air balune) and
> remeasure. I'm just afraid when my swr is to low, i won't get
proper
> gain.The advice Holger gave me(1.2 on the beginning of the band) ,
> is a bit different as what you see on the commercial hexbeam. And
> when i look at the results af David (btw , thanks David for the
info
> you posted!)it's also different compared to the commercial, Holger
> and my measurements.(i'm even suprised a can get the swr so low...)
> For several bands , the commercial hex uses the left flank of the
swr-
> curve...Well, i'm not an antenna - goeroe but i'm having fun trying
> it out.Hopefully i'll be broadcasting in a week or two!(it will be
my
> first trans-continental QSO...and it would be nice if i could work
> one of you guys)(yes, i'm still a bit green behind my ears= Belgian
> expression meaning unexperianced)
> I'll post my results of the swr with balun when i'm ready, but a
lot
> of work still has to been done.btw, it is supposed to be summer
here,
> but i think somebody up a bove made a mistake...;-)
> Peter
> > > Hi all,
> > > has anyone taken measurements on the hexbeam ? The results on
the
> > hex-
> > > beam website seems not realistic to me (a real flat curve)
> > > Anyone care to post their results??
> > > Thanks!
> > > Peter
> >

> > Hi Peter,
> >
> > Look in the Photos section of this list and you will find the
data
> > from W6HB (ex-WB6ROH). Also, look at the data taken for the
> > W4WB/W4RT Hex-Beam at www.nadxc.org. Look at the LongPath
> > newsletters, December 2001, page 9. You can get strange results
if
> > you don't measure the SWR correctly. Suggest that you use a
> current
> > balun of either 8-10 ferrite beads over RG-8/213 or make a coax
> > version (maybe 7 turns with 100 mm inside diameter, single layer).
> >
> > GL es 73,
> > Barry - W4WB

826. Re: swr data HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-06 02:07:20 UTC
From: w4wb
Topic: 820 Message: 826

Hi Peter,

A characteristic of this antenna is that the SWR rises rapidly on the low end of the band. This can be considered the bottom of its band. It can go from < 1.2 to > 2 in just a few tens of kHz. Low SWR does not mean good gain or F/B.

Drop me an email for a test. I can get on typically from about 1400-2200 Z. EU normally FB during this period. Try barry@....

Oh yes, we have those same "green ears" here in the US too! :-)

73 de Barry - W4WB

827. Re: [hex-beam] Re: swr data HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-06 05:42:41 UTC
From: Eric Carling
Topic: 820 Message: 827

Hi Barry,

Is the use of a ferrite or coax balun recommended for the commercial version
or just for user constructed ones? I hope to put my #231 up next week.

73 de Eric.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 05 July 2002 01:20:45
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: swr data HX5BI

--- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> Hi all,
> has anyone taken measurements on the hexbeam ? The results on the
hex-
> beam website seems not realistic to me (a real flat curve)
> Anyone care to post their results??
> Thanks!
> Peter

Hi Peter,

Look in the Photos section of this list and you will find the data
from W6HB (ex-WB6ROH). Also, look at the data taken for the
W4WB/W4RT Hex-Beam at www.nadxc.org. Look at the LongPath
newsletters, December 2001, page 9. You can get strange results if
you don't measure the SWR correctly. Suggest that you use a current
balun of either 8-10 ferrite beads over RG-8/213 or make a coax
version (maybe 7 turns with 100 mm inside diameter, single layer).

GL es 73,
Barry - W4WB

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828. Re: swr data HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-06 14:47:03 UTC
From: w4wb
Topic: 820 Message: 828

--- In hex-beam@y..., "Eric Carling" <g0cgl@t...> wrote:
>
> Hi Barry,
>
> Is the use of a ferrite or coax balun recommended for the commercial version or just for user constructed ones? I hope to put my #231 up next week.
>
> 73 de Eric.

Hi Eric,

In my opinion, it is unwise to install the antenna without the balun (homebrew or commercial). Will the HX-5Bi work without it? Sure. However, the balun will keep your line from radiating, etc. I like the ferrite balun due to its wider bandwidth when compared to the coax balun. For this antenna, Type #73 or the like material is best (say 5 to 6 1" long beads) although Type #43 will do the job if you use perhaps 10 beads. Type #73 is harder to find and costs more. The coax is ok, but has less bandwidth. Use a 4-1/4" O.D. PVC pipe as the form for RG-8/213 and make it single layer. With the antenna about 38-40' AGL, this will work fine. Remember to run the feedline as explained in the instruction manual (between the driven and reflector elements on the shield side of the center post). The balun should be located just below the antenna base (or just below the rotor relief coax).

I believe you will find Traffie's opinion doesn't differ much from mine.

Let us know when you are on the air with it and perhaps we can have a QSO!

GL es 73,
Barry - W4WB

829. Re: [hex-beam] Re: swr data HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-06 15:24:17 UTC
From: Eric Carling
Topic: 820 Message: 829

FB Barry, thankyou - I had omitted to give consideration to a balun so the topic on here was timely and your advice is appreciated. I'll let you know when its up and also my findings in the comparisons I will do with my GAP Titan. I hope to do it Monday but I've scheduled and postponed so many times I've lost count - we are having a very wet summer and it has always rained when I've wanted to do the beam. Also to do the work I have to access the adjacent field but have already found out to my cost that the 200+ resident sheep are not the friendliest of creatures!

Eric.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 06 July 2002 14:47:08
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: swr data HX5BI

--- In hex-beam@y..., "Eric Carling" <g0cgl@t...> wrote:
>
> Hi Barry,
>
> Is the use of a ferrite or coax balun recommended for the commercial version or just for user constructed ones? I hope to put my #231 up next week.
>
> 73 de Eric.

Hi Eric,

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I believe you will find Traffie's opinion doesn't differ much from mine.

Let us know when you are on the air with it and perhaps we can have a QSO!

GL es 73,
Barry - W4WB

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[Non-text portions of this message have been removed]

830. Wind load

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-06 19:16:14 UTC
From: Marty N5NW
Topic: 820 Message: 830

Is there an actual wind load figure out there anywhere for the antenna (5 Band)? I need the information to look at a proposed tower installation, and need to prove the tower is strong enough freestanding (35 ft. Rohn 25). I know it will be plenty, but just need the load factor.

Thanks de N5NW/8 (Marty)
Bellbrook, Ohio

831. Re: Wind load

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 04:14:15 UTC
From: w4wb
Topic: 820 Message: 831

--- In hex-beam@y..., "Marty N5NW" <n5nw@n...> wrote:
> Is there an actual wind load figure out there anywhere for the
antenna (5
> Band)? I need the information to look at a proposed tower
installation, and
> need to prove the tower is strong enough freestanding (35 ft. Rohn
25). I
> know it will be plenty, but just need the load factor.
>
> Thanks de N5NW/8 (Marty)
> Bellbrook, Ohio

Hi Marty,

Traffie's web site states for the HX-5B, the flat plate wind load is
est. to be < 5 sq. ft.

73 de Barry - W4WB

832. Re: swr data HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 04:19:44 UTC
From: w4wb
Topic: 820 Message: 832

--- In hex-beam@y..., "Eric Carling" <g0cgl@t...> wrote:
> FB Barry, thankyou - I had omitted to give consideration to a balun so the
> topic on here was timely and your advice is appreciated. I'll let you know
> when its up and also my findings in the comparisons I will do with my GAP
> Titan. I hope to do it Monday but I've scheduled and postponed so many times
> I've lost count - we are having a very wet summer and it has always rained
> when I've wanted to do the beam. Also to do the work I have to access the
> adjacent field but have already found out to my cost that the 200+ resident
> sheep are not the friendliest of creatures!
>
> Eric.

FB Eric. Only took me 15 months to get around to getting my Hex-Beam up in the air. Rather dumb to have wasted the peak of the solar cycle with the beam sitting in its box. :-) Even so, I raised my DXCC count from a bit over 145 last November to almost 270 presently (with 206 confirmed). FWIW, I also use the ferrite balun on my Titan with good results.

Oh yes, just be glad the field isn't populated with goats!

GL,
Barry - W4WB

833. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 06:44:10 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 833

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /W6HB's HX-5Bi Data/HX-5Bi#172@31' with coax balun.xls
Uploaded by : w6hb <w6hb@...>
Description : HX-5Bi @ 31' w/coax balun

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/W6HB%27s%20HX-5Bi%20Data/HX-5Bi%23172%4031%27
%20with%20coax%20balun.xls

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

w6hb <w6hb@...>

834. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 06:47:01 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 834

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /W6HB's HX-5Bi Data/HX-5Bi#172@37'.xls
Uploaded by : w6hb <w6hb@...>
Description : HX-5Bi @ 37' w/toroid balun

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/W6HB%27s%20HX-5Bi%20Data/HX-5Bi%23172%4037%27
.xls

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

w6hb <w6hb@...>

835. OM ED

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 07:47:50 UTC
From: billg3mcs
Topic: 835 Message: 835

P5/4L4FN - NORTH KOREA
Bruce, KK5DO now reports that Ed has collected all of the items sent to him in Bejing and is on his way back to North Korea. With the new Hex Beam/rotor he should have a better signal and "point" his signal where he wants. He will also now have satellite capability for AO-40.

[Non-text portions of this message have been removed]

836. Re: [hex-beam] Re: swr data HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 13:48:38 UTC
From: Nigel Gunn
Topic: 820 Message: 836

A commercial balun or a stack of ferrite rings? If so, what type and how many.

Thanks

----- Original Message -----
From: "w4wb" <w4wb@...>
FWIW, I also use the ferrite balun on my Titan with good results.
>

837. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 17:26:08 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 837

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /W6HB's HX-5Bi Data/HX-5Bi#172@31' with coax balun.xls
Uploaded by : w6hb <w6hb@...>
Description : HX-5Bi @ 31' w/ coax balun

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/W6HB%27s%20HX-5Bi%20Data/HX-5Bi%23172%4031%27
%20with%20coax%20balun.xls

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

w6hb <w6hb@...>

838. Re: swr data HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 20:16:57 UTC
From: on4ccw
Topic: 820 Message: 838

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@y..., "Eric Carling" <g0cgl@t...> wrote:
Barry, what do you mean by 38-40 AGL?
Peter
> >
> > Hi Barry,
> >
> > Is the use of a ferrite or coax balun recommended for the
> commercial version or just for user constructed ones? I hope to put
> my #231 up next week.
> >
> > 73 de Eric.
>
>
> Hi Eric,
>
> In my opinion, it is unwise to install the antenna without the
balun
> (homebrew or commercial). Will the HX-5Bi work without it? Sure.
> However, the balun will keep your line from radiating, etc. I like
> the ferrite balun due to its wider bandwidth when compared to the
> coax balun. For this antenna, Type #73 or the like material is
best
> (say 5 to 6 1" long beads) although Type #43 will do the job if you
> use perhaps 10 beads. Type #73 is harder to find and costs more.
The
> coax is ok, but has less bandwidth. Use a 4-1/4" O.D. PVC pipe as
> the form for RG-8/213 and make it single layer. With the antenna
> about 38-40' AGL, this will work fine. Remember to run the
feedline
> as explained in the instruction manual (between the driven and
> reflector elements on the shield side of the center post). The
balun
> should be located just below the antenna base (or just below the
> rotor relief coax).
>
> I believe you will find Traffie's opinion doesn't differ much from
> mine.
>
> Let us know when you are on the air with it and perhaps we can have
a
> QSO!
>
> GL es 73,
> Barry - W4WB

839. Re: swr data HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 20:27:02 UTC
From: w4wb
Topic: 820 Message: 839

--- In hex-beam@y..., "Nigel Gunn" <nigel@n...> wrote:
> A commercial balun or a stack of ferrite rings? If so, what type
and how
> many.
>
> Thanks

Nigel,

The numbers are the same regardless of the antenna (see prior
posts). The issue is bandwidth. For the Titan, Type #73 is better.
Being that I had a number of Type #43 laying around and the Type #73
is more expensive, I used 9 or 10 1" long split beads. Each bead is
expoxied and the lot of them are contained in heat shrink. The
performance falls off for the lower bands, but is generally
adequate. #73 resolves this matter.

73 de Barry - W4WB

840. Re: [hex-beam] Re: swr data HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 21:44:08 UTC
From: Nigel Gunn
Topic: 820 Message: 840

It appears from the Palomar and Amidon web sites that type 73 is not available in toriods (only small beads) and has been replaced with type 77.

de Nigel G8IFF

----- Original Message -----
From: "w4wb" <w4wb@...>
For the Titan, Type #73 is better.

841. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 22:42:38 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 841

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /W6HB's HX-5Bi Data/HX-5Bi#172@31' with coax balun.xls
Uploaded by : w6hb <w6hb@...>
Description : HX-5Bi

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/W6HB%27s%20HX-5Bi%20Data/HX-5Bi%23172%4031%27
%20with%20coax%20balun.xls

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

w6hb <w6hb@...>

842. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 22:43:05 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 842

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /W6HB's HX-5Bi Data/HX-5Bi#172@31'.xls
Uploaded by : w6hb <w6hb@...>
Description : HX-5Bi

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/W6HB%27s%20HX-5Bi%20Data/HX-5Bi%23172%4031%27
.xls

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

w6hb <w6hb@...>

843. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 22:43:29 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 843

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /W6HB's HX-5Bi Data/HX-5Bi#172@37'.xls
Uploaded by : w6hb <w6hb@...>
Description : HX-5Bi

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/W6HB%27s%20HX-5Bi%20Data/HX-5Bi%23172%4037%27
.xls

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

w6hb <w6hb@...>

844. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 22:55:28 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 844

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /W6HB's HX-5Bi Data/HX-5Bi#172@31' with coax balun.xls
Uploaded by : w6hb <w6hb@...>
Description : Installation #1

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/W6HB%27s%20HX-5Bi%20Data/HX-5Bi%23172%4031%27
%20with%20coax%20balun.xls

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

w6hb <w6hb@...>

845. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 22:55:59 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 845

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /W6HB's HX-5Bi Data/HX-5Bi#172@37'.xls
Uploaded by : w6hb <w6hb@...>
Description : Installation #2

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/W6HB%27s%20HX-5Bi%20Data/HX-5Bi%23172%4037%27
.xls

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

w6hb <w6hb@...>

846. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-07 22:56:35 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 846

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /W6HB's HX-5Bi Data/HX-5Bi#172@31'.xls
Uploaded by : w6hb <w6hb@...>
Description : Installation #3

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/W6HB%27s%20HX-5Bi%20Data/HX-5Bi%23172%4031%27
.xls

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

w6hb <w6hb@...>

847. VSWR files

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-08 02:14:47 UTC
From: w6hb
Topic: 847 Message: 847

In response to many questions lately about the different experiences at various installations, I have added a VSWR file to the site. I invite others to add their data as well to maintain a central source of information. I apologize for all the notifications sent during the past day or so while I was having trouble getting the correct data uploaded.....73 - Doug - W6HB

848. CY9DH

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-08 09:12:07 UTC
From: David P Douglass
Topic: 822 Message: 848

Hi all,

Looks like the guys at CY9DH did pack their Hex-Beam.

Check out http://www.geocities.com/stpaulisland/CY9DH.html for pictures..

David, VK2DPD

849. ZB0/DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-11 06:01:01 UTC
From: lz2be
Topic: 849 Message: 849

Hi guys,
I had CW QSO with Holger and his team yesterday on 40,20 and 15m bands. Signals were very strong and there was a good pileup!
73 de Bob, LZ2BE

850. swr readings

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-12 17:03:53 UTC
From: on4ccw
Topic: 850 Message: 850

Hi all, very short message : added file and photo's. Think i'll just change the 20 meters a bit . what do you guys think?
Bye for now
Peter

851. Re: swr readings

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-13 01:55:59 UTC
From: w6hb
Topic: 850 Message: 851

Nice VSWR curves Peter. Based on info from Barry, W4WB, and Mike T., the performance on Mike's units have best gain and F/B at just above the frequency where the VSWR climbs rapidly at the bottom of each band. Over the width of the band the F/B drops about 10dB and the gain less than 1 dB. Have you had an opportunity to evaluate performance yet? I suspect you will find that minimum VSWR and optimum full band performance will not be at the same point. 73 - Doug - W6HB

--- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> Hi all, very short message : added file and photo's. Think i'll just
> change the 20 meters a bit . what do you guys think?
> Bye for now
> Peter

852. new guy...

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-13 16:51:21 UTC
From: ufoinfo550212000
Topic: 852 Message: 852

Hi all,
Just a note to introduce myself as another hex-beam user. I'd purchased the six band (one at a time) portable HXP-6TM and was happy with it. Now I've purchased the HX-5Bi multi-band hex. I expect to have it operational by Jul 21st.

Everyone's comments on this group has been helpful to me. From your comments so far, I've purchased two right angle connectors so I may run the coax directly down the side of the centerpost; I've ordered a current balun ferrite bead kit from Polimar in Texas; painted the spreaders camo to blend in with the surroundings; and have enough coax-seal to seal my entire house. If anyone has any other suggestions for me to consider before I get it up in the coming week, please feel free to let me know. 73's, Ed Fox, KB0OKV (Minnesota)

853. Re: new guy...

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-13 18:15:14 UTC
From: w6hb
Topic: 852 Message: 853

Welcome aboard,Ed. Looks like you have just about everything covered. I see have read the paperwork and realize the importance of running the coax down the feed tube correctly. Hopefully you will have minimal near field metal and adequate height for a good takeoff angle. Keep us posted on your progress and drop a line when you would like a sked to run check outs.....Doug - W6HB@...

--- In hex-beam@y..., "ufoinfo550212000" <elfox@h...> wrote:
> Hi all,
> Just a note to introduce myself as another hex-beam user. I'd
> purchased the six band (one at a time) portable HXP-6TM and was
happy
> with it. Now I've purchased the HX-5Bi multi-band hex. I expect
to
> have it operational by Jul 21st.
>
> Everyone's comments on this group has been helpful to me. From
your
> comments so far, I've purchased two right angle connectors so I may
> run the coax directly down the side of the centerpost; I've ordered
a
> current balun ferrite bead kit from Polimar in Texas; painted the
> spreaders camo to blend in with the surroundings; and have enough
> coax-seal to seal my entire house. If anyone has any other
> suggestions for me to consider before I get it up in the coming
week,
> please feel free to let me know. 73's, Ed Fox, KB0OKV (Minnesota)

854. testing antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-13 21:48:49 UTC
From: on4ccw
Topic: 854 Message: 854

Hi guys, just to let you know that my 12V supply still isn't back
from the store(was promissed for today...)Thanks for the offer
Barry& Doug. Sure will é-mail you guys but wensday i'm off to the
south of France (there will be sunshine over there i hope :-)...)
I'll be back the 27 of July and no , i' won't take a ham installation
with me (the misses won the battle , not the war!)
thanks again! btw, according to the info i'll still make the wires a
bit shorter , but first i'll try it out as it is for the moment. As
you can see on the foto's , it is handy to work on the antenna with
the mast in its lower position.(i'm afraid of hights you see, sure
picked the wrong hobby, should have collected stamps...;-))
Peter

855. Hex-Beam at P5/4L4FN

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-14 05:23:43 UTC
From: w6hb
Topic: 855 Message: 855

Ed, P5/4L4FN, informed me within the past hour that he has worked the bugs out of his 15/10 Hex-Beam installation and is starting to see benefits over his Butternut vertical. He started out with poor VSWR and no apparent gain over the vertical. Barry(W4WB), Mike Traffie (N1HXA)and I have been working with him via E-mail to gain the results we knew were possible. His latest report touts VSWR of 1.15 to 1.2 and in QSOs with his homeland 4Ls from P5, apparent gain of 3 to 5 dB. The main problem was that the antenna was too close to near field metal such as rebar, radials of the vertical and satellite dishes. He is now at about 8 meters and plans to go to about 10 meters above the roof. This should improve his TOA and maintain performance. Check out this site's photo section for Ed's current installation.....73 - Doug - W6HB

856. P5/4L4FN

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-14 20:12:21 UTC
From: w4wb
Topic: 647 Message: 856

For those of you that only get the group emails rather than using the web browser, you might enjoy looking at the home page image. Go to http://groups.yahoo.com/group/hex-beam. I have added Ed's evolving installation to the group image.

73,
Barry - W4WB

857. IARU Contest

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-15 21:45:29 UTC
From: k0qv
Topic: 857 Message: 857

Hello,
I worked my first contest, for the HexBeam and for Me.
I have only been licensed for a year.

Results:
Phone Only
Single OP
578 QSO's in 17 Hours
77 Multipliers
129,822 Total Points

Based on past Scoring History, I will place for my Section (MO).

Thanks to the HexBeam
It's Like Shooting Fish in a Barrel.

73
Barry

858. Re: IARU Contest

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-16 01:11:47 UTC
From: w4wb
Topic: 857 Message: 858

Well done Barry! I should think your operating skill helped some too.
73 de Barry - W4WB

--- In hex-beam@y..., "k0qv" <k0qv@c...> wrote:
> Hello,
> I worked my first contest, for the HexBeam and for Me.
> I have only been licensed for a year.
>
> Results:
> Phone Only
> Single OP
> 578 QSO's in 17 Hours
> 77 Multipliers
> 129,822 Total Points
>
> Based on past Scoring History, I will place for my Section (MO).
>
> Thanks to the HexBeam
> It's Like Shooting Fish in a Barrel.
>
> 73
> Barry

859. Hexbeam #231

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-16 07:30:14 UTC
From: Eric Carling
Topic: 859 Message: 859

Hi folks,

At last its up! We got a nice sunny day yesterday for a change and the sheep in the adjacent field have been moved somewhere else.

My antenna situation is a bit difficult because of overhead power cables running across the property in two places. This is what led me to install a GAP Titan vertical 4 years ago, which has worked surprisingly well (for a vertical). So positioning my lightweight mast was not easy and finally I had to put it under power lines which restricts the antenna height to about 25 feet. The proximity of the lines has some effect on SWR, though only when the antenna is in a W to NW direction and thats only on 20mtrs.

I had a play yesterday evening and this morning on 20/17/15 - no band opening on 12/10 yet. Straight away I noticed a big improvement on received signal strengths over the vertical. Typically 2 S points, sometimes more. This morning on 20 mtrs as the band opened to W6/7 and the Pacific, the hexbeam was initially 6 S points up on the vertical reducing to 2-3 S points when the band was fully open. European signals were not much different between the beam and the vertical. These "measurements" are by way of the SWR meter on my FT1000MP.

Front to back seems good, I need to check it more. SWR, notwithstanding the above problem is very good too. In fact on 15m the SWR is very flat across the whole band. I've always thought this is not a good sign and that a good antenna should exhibit a noticeable resonant point. But it is definitely working well on 15 so who am I to complain? Maybe someone can introduce some comment on this.

I had to use the coax type balun as the ferrite cores hadn't arrived. They ve come in today's post would you believe but now I think I will stay with the coax type. I'm in good company, having seen those excellent pictures of the P5/4L4FN installation with coax balun.

So thats my initial report - hope you guys don't mind reading it, couldn't resist because I'm so very pleased with the results from the Hex.

I wonder if anyone has done anything to repel birds or is it necessary? Mine attracts the large rook and crow variety, some of which have a penchant for pecking at something on the antenna. I'm a bit worried that they might cause damage - or is it bird proof?

73 de Eric G0CGL.

860. Re: Hexbeam #231

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-17 02:35:10 UTC
From: w6hb
Topic: 859 Message: 860

Congratulations Eric. You gave us info about received signals. How about some info on who you have worked and if you got any A/B comparisons between the two antennas from the DHex? Maybe you can make it through to W6 on 17 or 20. It has been fair here from about 0100Z to 0400Z lately. 73 - Doug - W6HB

--- In hex-beam@y..., "Eric Carling" <g0cgl@t...> wrote:
> Hi folks,
>
> At last its up! We got a nice sunny day yesterday for a change and the sheep
> in the adjacent field have been moved somewhere else.
>
> My antenna situation is a bit difficult because of overhead power cables
> running across the property in two places. This is what led me to install a
> GAP Titan vertical 4 years ago, which has worked surprisingly well (for a
> vertical). So positioning my lightweight mast was not easy and finally I had
> to put it under power lines which restricts the antenna height to about 25
> feet. The proximity of the lines has some effect on SWR, though only when
> the antenna is in a W to NW direction and thats only on 20mtrs.
>
> I had a play yesterday evening and this morning on 20/17/15 - no band
> opening on 12/10 yet. Straight away I noticed a big improvement on received
> signal strengths over the vertical. Typically 2 S points, sometimes more.
> This morning on 20 mtrs as the band opened to W6/7 and the Pacific, the
> hexbeam was initially 6 S points up on the vertical reducing to 2-3 S points
> when the band was fully open. European signals were not much different
> between the beam and the vertical. These "measurements" are by way of the
> SWR meter on my FT1000MP.
>
> Front to back seems good, I need to check it more. SWR, notwithstanding the

> above problem is very good too. In fact on 15m the SWR is very flat
across
> the whole band. I've always thought this is not a good sign and
that a good
> antenna should exhibit a noticeable resonant point. But it is
definitely
> working well on 15 so who am I to complain? Maybe someone can
introduce some
> comment on this.
>
> I had to use the coax type balun as the ferrite cores hadn't
arrived. They
> ve come in today's post would you believe but now I think I will
stay with
> the coax type. I'm in good company, having seen those excellent
pictures of
> the P5/4L4FN installation with coax balun.
>
> So thats my initial report - hope you guys don't mind reading it,
couldn't
> resist because I'm so very pleased with the results from the Hex.
>
> I wonder if anyone has done anything to repel birds or is it
necessary? Mine
> attracts the large rook and crow variety, some of which have a
penchant for
> pecking at something on the antenna. I'm a bit worried that they
might cause
> damage - or is it bird proof?
>
>
> 73 de Eric G0CGL.

861. Spread the Word!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-17 02:56:22 UTC
From: w6hb
Topic: 861 Message: 861

It seems that we have many happy Hex-beam owners and very few who are not. It is surprising how many stations I work who have never heard of the Hex or are somewhat surprised at its performance and simplicity. When I look at the product reviews on EHam.Net, I see that the Hex has been reviewed 20 times by at least 17 hams. Some have deflated their 0 to 5 product ratings for what appear to be other than technical or performance reasons. Many potential buyers utilize these assessments and when they see other than a 5 (equates to the 59 contest report I guess) they assume something is wrong. The more data that is presented, the better. Let's get out the honest word. Let others know what you like or don't like. Many of us have QTH restrictions that direct us to smaller or lower antennas. If you are in this category, how much of a compromise do you believe you have taken by going with the Hex? Do you have experience with other antennas with small footprints such as the C3SS, TGM, or whatever? Let others know of your experiences. Maybe you will be Elmering someone like you who has improved their station's performance and enjoyment of the service. 73 - Doug - W6HB

862. Re: [hex-beam] Re: Hexbeam #231

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-17 08:36:53 UTC
From: Eric Carling
Topic: 859 Message: 862

Hi Doug,

Yes I will do that. I was dog-tired last night and didn't operate. Condx wern't too good either. On the evening I put it up I got two comparative reports on my transmit signal, both from east coast USA: both QSOs 5/6 on the vertical, 5/9 on the beam. But I would like to do the same with W6/7 or VK/ZL - maybe tonight if the band is open. I'll report to the group again when I get some useful data.

I was interested in your message, 'Spread The Word!' I read through the e-Ham reviews before buying and noted that the average mark of 4.5 was affected by a mark of 2/5 and one of 1/5. Yet in those reviews there was hardly a bad word about the antenna and I didn't consider those marks to be valid. The average was really better than 4.5/5 The only non-technical/performance critisism of any validity was that of the cost of purchase.

Prior to moving to this QTH, I operate from a house with almost no garden and used the TGM type mini-quad 2 ele beam. The Hexbeam is significantly better in performance. Corrosion and wind damage degraded performance of the mini-quad after about 4 years, something which I doubt will happen to the Hexbeam.

At this QTH, I don't consider a Hexbeam to be much of a compromise at all. The compromise was in selecting the Titan vertical. I should have gone for a Hexbeam, which 'feels' like a full-size 2 or even 3 element beam, and then put something else up dedicated to the low bands.

Eric G0CGL.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 17 July 2002 02:35:15
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Hexbeam #231

Congratulations Eric. You gave us info about received signals. How about some info on who you have worked and if you got any A/B comparisons between the two antennas from the DHex? Maybe you can make it through to W6 on 17 or 20. It has been fair here from about 0100Z to 0400Z lately. 73 - Doug - W6HB

--- In hex-beam@y..., "Eric Carling" <g0cgl@t...> wrote:
> Hi folks,
>
> At last its up! We got a nice sunny day yesterday for a change and

the sheep
> in the adjacent field have been moved somewhere else.
>
> My antenna situation is a bit difficult because of overhead power
cables
> running across the property in two places. This is what led me to
install a
> GAP Titan vertical 4 years ago, which has worked surprisingly well
(for a
> vertical). So positioning my lightweight mast was not easy and
finally I had
> to put it under power lines which restricts the antenna height to
about 25
> feet. The proximity of the lines has some effect on SWR, though
only when
> the antenna is in a W to NW direction and thats only on 20mtrs.
>
> I had a play yesterday evening and this morning on 20/17/15 - no
band
> opening on 12/10 yet. Straight away I noticed a big improvement on
received
> signal strengths over the vertical. Typically 2 S points, sometimes
more.
> This morning on 20 mtrs as the band opened to W6/7 and the Pacific,
the
> hexbeam was initially 6 S points up on the vertical reducing to 2-3
S points
> when the band was fully open. European signals were not much
different
> between the beam and the vertical. These "measurements" are by way
of the
> SWR meter on my FT1000MP.
>
> Front to back seems good, I need to check it more. SWR,
notwithstanding the
> above problem is very good too. In fact on 15m the SWR is very flat
across
> the whole band. I've always thought this is not a good sign and
that a good
> antenna should exhibit a noticeable resonant point. But it is
definitely
> working well on 15 so who am I to complain? Maybe someone can
introduce some
> comment on this.
>
> I had to use the coax type balun as the ferrite cores hadn't
arrived. They
> ve come in today's post would you believe but now I think I will
stay with
> the coax type. I'm in good company, having seen those excellent

pictures of
> the P5/4L4FN installation with coax balun.
>
> So thats my initial report - hope you guys don't mind reading it,
couldn't
> resist because I'm so very pleased with the results from the Hex.
>
> I wonder if anyone has done anything to repel birds or is it
necessary? Mine
> attracts the large rook and crow variety, some of which have a
penchant for
> pecking at something on the antenna. I'm a bit worried that they
might cause
> damage - or is it bird proof?
>
>
> 73 de Eric G0CGL.

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[Non-text portions of this message have been removed]

863. Hexbeam #237

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-17 19:41:13 UTC
From: wtanigawa
Topic: 863 Message: 863

Well, I've been lurking too long without comment and I need to thank all the contributors for many insightful comments. A few nights ago, a ham in Japan asked me to describe the hexbeam and I'm sure I convinced him that I was nuts. "Draw the letter M, now just under it, draw the letter W" Huh?? How do you get a Hexagon from that? With your help, I gotta' come up with a accurate description in less than 30 or so words. HIHI.
Someone asked for a reason for the flat swr on the resonant sections of this 5-band antenna and I've been puzzled too. When I checked with a MJF, I thought it was broken because the hexbeam was flat over almost all of the bands. So, I've been thinking (always a dangerous thing!), because of the way the hexbeam is fed, even if one is transmitting on one band, do all the DE's radiate? Something like a log-periodic? In fact, does the hexbeam resemble a LP in more ways than a quad or yagi? I have found out by experience that this is one long-haul antenna. Some of the stations I've worked have told me that they've never even heard Hawaii on the band before. Often on the back of their beams and I usually run only 100W.
73&aloha, wil - kh6imb

864. Re: [hex-beam] Re: Hexbeam #231

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-18 08:49:30 UTC
From: Eric Carling
Topic: 859 Message: 864

Just a quick note on comparative reports on my transmit signal, Hexbeam v Titan vertical, obtained last night.

I got comparisons from a couple of stations in USA including K6MYC plus VQ9FW and V51KC. They all said I was 2 S-points stronger on the beam except for the VQ9 who said I was 3 S-points stronger. Also I was able to quite easily break the pile-ups for the VQ9 and V51 plus pile-ups for 3DA0CF & 5K0Z (3 bands) with the 1000MP barefoot. At this rate my new Acom 1000 amplifier is going to be a bit redundant!

Eric G0CGL.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 17 July 2002 02:35:15
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Hexbeam #231

Congratulations Eric. You gave us info about received signals. How about some info on who you have worked and if you got any A/B comparisons between the two antennas from the DHex? Maybe you can make it through to W6 on 17 or 20. It has been fair here from about 0100Z to 0400Z lately. 73 - Doug - W6HB

[Non-text portions of this message have been removed]

865. Fw: P5 RTTY OK

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-18 19:27:21 UTC
From: billg3mcs
Topic: 865 Message: 865

Subject: P5 RTTY OK

GOOD INFO 73 DE BILL

The following message just received this morning from Bill Moore at the
>DXCC Desk:
>
>Effectively immediately, the DXCC Desk will accept confirmations for RTTY
>QSOs with Ed, P5/4L4FN. QSOs dating back to November, 2001 will be counted.
>
>
>73
>
>
>Bill Moore NC1L
>DXCC Manager

[Non-text portions of this message have been removed]

866. Fw: P5 RTTY OK

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-18 20:39:39 UTC
From: billg3mcs
Topic: 865 Message: 866

Subject: P5 RTTY OK

GOOD INFO 73 DE BILL

The following message just received this morning from Bill Moore at the
>DXCC Desk:
>
>Effectively immediately, the DXCC Desk will accept confirmations for RTTY
>QSOs with Ed, P5/4L4FN. QSOs dating back to November, 2001 will be counted.
>
>
>73
>
>
>Bill Moore NC1L
>DXCC Manager

[Non-text portions of this message have been removed]

867. Hexb-beam on St. Paul DXpedition

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-18 23:52:02 UTC
From: w6hb
Topic: 867 Message: 867

Here is some information I asked for and received from W0SD who ran
the HF operations on St. Paul using a HX-5B.....Doug - W6HB

This is from Ed W0SD who was in charge of all the HF operation on St.
Paul and it was my HEX Beam. You may feel free to post this where
ever
you like but please use my call with it.

I have used the HEX Beam in AZ this winter to work Ducie IS. for a new
one. The XYL and I both worked Ducie on both SSB and CW in the first
14
hours of the Dx-pedition. We also used it from Lake Chapala in Mexico
and than used it on St. Paul and plan on using it from FP.

The reason I bought a HEX beam after a lot of thinking and
investigation
is that it is the ONLY ANTENNA I know of that uses one coax and goes
on
5 bands and is light enough you can get it up and keep it up on a
portable mast and can be put together in 30 minutes and taken down in
15
minutes.

I use a 20 foot flag pole to mount it on at St. Paul. The other
places I
had my 5th wheel so I also had 8 foot of alum pipe for a total height
of
about 30 feet.

Other considerations are low SWR over all of the 5 bands, stands up to
high winds, ie does not have a lot of wind load, reasonable gain and
F/B.

I now have things pretty well worked out. I have a mount made out of
alum pipe with PVC in it that just fits the end of the flag pole. The
PVC is slit for about one inch above the alum pipe and I have a husky
clamp that I can tighten and with the PVC split 2 ways I can hold the
flag pole from rotating in the 40-50 mph winds we had on St. Paul. I
have a guy ring at the top of the flag pole and had it guyed. It took
the winds at St. Paul which were really gusty with a terrible down
pour
of rain. The base is buried in the dirt with a 2 x 4 bolted to it so
it
won't rotate. Where it is to rocky to bury such a St. Pierre I will
pile rocks around it. We also used some rocks at St. Paul. For guys
if

you can't get stakes in you can use bags/tarps filled with rocks or logs
with rocks piles on them. All of these will hold the HEX Beam up to at
least 55 mph winds. It has done it in actual usage. I would assume one
could go to at least 75 mph based on experince I have had over the
years. The limiting factor would be the strength of your guy points. I
would have no concern about the antenna.

I find the wife and I can put the HEX beam together in 30 minutes
easily. It works by far the best to have two people. We leave all the
wires on the fiberglass poles and just take the joints apart and tape
the wires and poles together and put them all into a bag I had made. We
put in everything but the center hub.

I have a mobile quick attachment mounted on top ofathe flag pole and the
other part of it on the bottom of the center hub(I did some welding) for
the HEX beam so once the HEX beam is put together I can reach the top of
the flag pole and quick attach the HEX beam to it. This is possible
since it is light. On St. Paul with the wind blowing I had one person
help hold it while I mounted it since we did not want it to get broken.
My experience is that even if one would drop it the chances of it not
breaking are pretty good. It is a lot tougher than it looks.

It definitely worked very well when I have used it. There is definitely
noticeable F/B and gain. As mentioned in the literature the F/B does
seem to drop off as you go across the band. The truth of the matter is
on St. Paul it worked well to put the antenna between Europe and
Japan(fairly broad front lobe) and work the USA off the back or vice
versa! When we wanted all the signal we could get such as on 10 or 12
where signals were weak pointing it where the band was open made a huge
difference.

My experience shows the antenna works decent at low heights of even 12-
15 feet and certainly does well at 25-30 feet. We A/B switch tested it
against a beam at 60 and 90 feet and it did very well. Not as strong
but for the difference in height not a lot of difference. As one would
expect on low height showed up the most on 20 meters but even then was

decent at 15 feet!

What are the downside: One tends to tighten the screws fairly tight to
hold the wires and over time the threaded studs are going to break off
and I am going to have to do some repairing. Over time the wire is
going to get frayed were it goes through the holders on the fiber glass
poles as it has to be tight because of the pull of the bent fiberglass
so eventually there is going to be a need for some wire repair. Both of
these are problems for my type of use as a traveling antenna and would
not apply to a fixed location.

BTW I just tape the fiberglass joints and that seems to work great.

The other downside is the price. It is really getting out of sight but
then when I look at what other 5 band beams cost I have to say it is in
the ball park! The reality of life is that other 5 band beams do not
have all that much gain over what the HEX Beam does and they weight a
lot and take a long time to put together and would be basically
impossible to take on a DX-Pedition and get up and keep up.

I was hoping the HEX beam would not be subject to precipitation static
but it is. As to how it compares to a beam I have no A/B comparision
but we did get precipitation static at St. Paul but then we nearly died
from a lightening strike. We were high up on the rock and one hit right
by us. Man it was something!!!

Will try and report on the results from FP

73, Ed W0SD

868. Hexbeam #239 operational this Saturday the 20th.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-19 22:30:23 UTC
From: ufoinfo550212000
Topic: 868 Message: 868

Hi all,
I expect to have HXBi-239 operational from my Faribault, MN. QTH tomorrow (20th) by noon local time. It's 30' off the ground and I'm looking forward to anyone who might want to chat. 73's, Ed, KB0OKV.

869. Re: Hexbeam #239 operational this Saturday the 20th.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-20 00:19:42 UTC
From: w4wb
Topic: 868 Message: 869

--- In hex-beam@y..., "ufoinfo550212000" <elfox@h...> wrote:
> Hi all,
> I expect to have HXBi-239 operational from my Faribault, MN. QTH
> tomorrow (20th) by noon local time. It's 30' off the ground and
I'm
> looking forward to anyone who might want to chat. 73's, Ed, KB0OKV.

Hi Ed,

Good news. So what frequency would you like to try? Say 18.130 +/-5
at 1900Z (2 P.M. CDT) Saturday?

73 de Barry - W4WB

870. Re: [hex-beam] Re: Hexbeam #239 operational this Saturday the 20th.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-20 01:20:36 UTC
From: Ed Fox
Topic: 868 Message: 870

```
>From: "w4wb" <w4wb@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] Re: Hexbeam #239 operational this Saturday the 20th.
>Date: Sat, 20 Jul 2002 00:19:42 -0000
>
>--- In hex-beam@y..., "ufoinfo550212000" <elfox@h...> wrote:
> > Hi all,
> > I expect to have HXBi-239 operational from my Faribault, MN. QTH
> > tomorrow (20th) by noon local time. It's 30' off the ground and
>I'm
> > looking forward to anyone who might want to chat. 73's, Ed, KB0OKV.
>
>Hi Ed,
>
>Good news. So what frequency would you like to try? Say 18.130 +/-5
>at 1900Z (2 P.M. CDT) Saturday?
>
>73 de Barry - W4WB
>

Thanks for responding Barry.
! I'll be on the air at 18.130 mHz. 1900 UTC(2p.m.CDT). Ed, KB0OKV

_____________________________________________________________________
Chat with friends online, try MSN Messenger: http://messenger.msn.com
```

871. Re: [hex-beam] Re: Hexbeam #239 operational this Saturday the 20th.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-20 02:23:59 UTC
From: Gordon
Topic: 868 Message: 871

Hi, My#147 is on the pole at last Hpe to get on at 1900Z 20th.
Gordon
----- Original Message -----
From: Ed Fox
To: hex-beam@yahoogroups.com
Sent: Friday, July 19, 2002 6:20 PM
Subject: Re: [hex-beam] Re: Hexbeam #239 operational this Saturday the 20th.

>From: "w4wb" <w4wb@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] Re: Hexbeam #239 operational this Saturday the 20th.
>Date: Sat, 20 Jul 2002 00:19:42 -0000
>
>--- In hex-beam@y..., "ufoinfo550212000" <elfox@h...> wrote:
> > Hi all,
> > I expect to have HXBi-239 operational from my Faribault, MN. QTH
> > tomorrow (20th) by noon local time. It's 30' off the ground and
>I'm
> > looking forward to anyone who might want to chat. 73's, Ed, KB0OKV.
>
>Hi Ed,
>
>Good news. So what frequency would you like to try? Say 18.130 +/-5
>at 1900Z (2 P.M. CDT) Saturday?
>
>73 de Barry - W4WB
>

Thanks for responding Barry.
! I'll be on the air at 18.130 mHz. 1900 UTC(2p.m.CDT). Ed, KB0OKV

_____
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[Non-text portions of this message have been removed]

872. 5-Way Hex-Beam QSO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-21 02:24:13 UTC
From: w4wb
Topic: 872 Message: 872

This afternoon at 1900Z, Gordon VA7XG, Ed KB0OKV, Barry W4WB, Bill G3MCS, and Barry K0QV had a FB QSO on 17 m. I was Ed's 2nd QSO on his new HX-5Bi. Sounded good. All stations were 56-58 here in Alabama except Gordon who was a bit weak due to propagation - reverse true as well. Bill had a big signal from England with his 400 W.

Tnx guys for a good QSO. Five HBs at once isn't too bad!

73 de Barry - W4WB

873. back home

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-26 22:01:12 UTC
From: dl7io
Topic: 873 Message: 873

Dear friends,
after 3 beautiful weeks full of new impressions we are back home now. We have been to F/C3/EA/ZB/CT/LX driving more than 7500 km and making much more QSO's. The top spot was like expected ZB-Gibraltar where we made 5563 QSO's (5379 in CW) in 2 days with one radio. Most contacts were made on my homemade beam. Our QTH was at the only HAM-friendly hotel in ZB which is on the east side of the rock. The beam was about 8m over the hotel roof, about 50m over sea level but only 100m east from top of the rock with about 400+m. So we had not the best conditions for the states but nevertheless we got a few hundred W's into the log.
I will give you some photos later in the photo section.
regards Holger, DL7IO

874. Re: back home

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-07-29 22:35:46 UTC
From: on4ccw
Topic: 873 Message: 874

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
Welcome home Holger,

my hex is completed and i have just taken some B/F measurements. It seems i have +/- 12 db on all bands ,all of the bandwith . I'm now looking for the gain values but for that i think i must be able to compare with a vertical? I tried the "hexbeamfreq.s" a few times but only the 20 meters was open and was crowded with contests. as my father died last week, my priority was of course not ham-activities, but it helped working further on my installation to put my mind on something else. I know that this issue isn't the purpose of this group, but i like to think that it should be possible , we're all human afer all??!
very nice results on your trip.
Peter

> Dear friends,
> after 3 beautiful weeks full of new impressions we are back home now.
> We have been to F/C3/EA/ZB/CT/LX driving more than 7500 km and making
> much more QSO's. The top spot was like expected ZB-Gibraltar where we
> made 5563 QSO's (5379 in CW) in 2 days with one radio. Most contacts
> were made on my homemade beam. Our QTH was at the only HAM-friendly
> hotel in ZB which is on the east side of the rock. The beam was about
> 8m over the hotel roof, about 50m over sea level but only 100m east
> from top of the rock with about 400+m. So we had not the best
> conditions for the states but nevertheless we got a few hundred W's
> into the log.
> I will give you some photos later in the photo section.
> regards Holger, DL7IO

875. HEX BEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-06 19:24:59 UTC
From: Richard Strobel
Topic: 875 Message: 875

IM THINKINGOF PURCHASING A HEX BEAM 5XBI. CAN ANYONE TELL ME HOW COMPLICATED IT IS TO PUT TOGETHER AND HOE DOES IT COMPARE TO A 2 ELEMENT QUAD. I CAN ONLY HAVE ONE BEAM. NEED TO GET THE MOST BAND FOR THE BUCK. THANK. RICH

Do You Yahoo!?
Yahoo! Health - Feel better, live better

[Non-text portions of this message have been removed]

876. Re: HEX BEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-06 19:55:32 UTC
From: w6hb
Topic: 875 Message: 876

It is easy to assemble taking less 2 hours with 2 people who have never seen one and a little longer with 1. It covers 5 bands with reasonable gain. It is smaller and I believe more survivable than a quad. I can not provide you with side by side shootout data. If you will read through the hundreds of posts on this site and the testimonials on www.hexbeam.com, I believe just about any questions you may have will be answered. 73 - Doug - W6HB

--- In hex-beam@y..., Richard Strobel <gfts4u@y...> wrote:
> IM THINKINGOF PURCHASING A HEX BEAM 5XBI. CAN ANYONE TELL ME HOW COMPLICATED IT IS TO PUT TOGETHER AND HOE DOES IT COMPARE TO A 2 ELEMENT QUAD. I CAN ONLY HAVE ONE BEAM. NEED TO GET THE MOST BAND FOR THE BUCK. THANK. RICH
>
>
> ---
> Do You Yahoo!?
> Yahoo! Health - Feel better, live better
>
> [Non-text portions of this message have been removed]

877. Re: [hex-beam] HEX BEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-06 19:56:27 UTC
From: Bill Terry
Topic: 875 Message: 877

Rich
I am one of the least handy people I know and I put
mine together alone in about 2 hours. It is very
sturdy. Once together it is easy to pick up and tote
around. I can't compare it to a quad but it is much
better than all of the wire beams I have owned. It is
expensive but considering the amount saved on tower
and rotor you probably come out ahead.
I highly recommend it. Bill K4BYR
--- Richard Strobel <gfts4u@...> wrote:
> IM THINKINGOF PURCHASING A HEX BEAM 5XBI. CAN
ANYONE
> TELL ME HOW COMPLICATED IT IS TO PUT TOGETHER
AND
> HOE DOES IT COMPARE TO A 2 ELEMENT QUAD. I CAN
ONLY
> HAVE ONE BEAM. NEED TO GET THE MOST BAND FOR THE
> BUCK. THANK. RICH
>
>
> ---------------------------------
> Do You Yahoo!?
> Yahoo! Health - Feel better, live better
>
> [Non-text portions of this message have been
> removed]
>
>

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Yahoo! Health - Feel better, live better
http://health.yahoo.com

878. 6 meter dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-10 21:52:35 UTC
From: tombred55126
Topic: 878 Message: 878

Working on a 6 meter homebrew hex and am having problems with getting it to tuneup at 50.1 MHz. I tried the same formula as my 10 meter version but it does not seem to be correct. I would appreciate any dimensions that have been successful for 6 meters.

Thanks!

KC0INP

879. Re: 6 meter dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-11 22:50:09 UTC
From: w4wb
Topic: 878 Message: 879

--- In hex-beam@y..., "tombred55126" <kc0inp@h...> wrote:
> Working on a 6 meter homebrew hex and am having problems with
getting
> it to tuneup at 50.1 MHz. I tried the same formula as my 10 meter
> version but it does not seem to be correct. I would appreciate any
> dimensions that have been successful for 6 meters.
>
> Thanks!
>
> KC0INP

Contact Brad K0TRL (see message #350).

73 de Barry - W4WB

881. FS: New HX-5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-13 14:51:22 UTC
From: Michael Melland
Topic: 881 Message: 881

Well it looks like it's going to be some time before I have the time and cash to erect a tower to put up my Hex due to some other more pressing home improvement projects. Rather then having it sitting new in the boxes for another year or two I'm going to sell it. I took delivery of it in February 2002 and had ordered it from Mike prior to the price increase the first of the year. If you know of someone planning on the purchase of an HX-5bi I can save them some cash. The beam is new in it's original unopened shipping boxes. $786 shipped... save about $140

Mike

--
Michael Melland, W9WIS
Winneconne, WI USA

882. Re: [hex-beam] FS: New HX-5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-13 16:45:49 UTC
From: Marty N5NW
Topic: 881 Message: 882

Hi Michael,

Sorry for your difficulty. I was planning on purchasing one next spring.
Can I discuss with my wife tonight, and let you know something tomorrow?

de N5NW/8
Marty
Bellbrook, Ohio (near Dayton)

----- Original Message -----
From: "Michael Melland" <w9wis@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, August 13, 2002 10:51 AM
Subject: [hex-beam] FS: New HX-5bi

> Well it looks like it's going to be some time before I
> have the time and cash to erect a tower to put up my Hex
> due to some other more pressing home improvement projects.
> Rather then having it sitting new in the boxes for another
> year or two I'm going to sell it. I took delivery of it in
> February 2002 and had ordered it from Mike prior to the
> price increase the first of the year. If you know of
> someone planning on the purchase of an HX-5bi I can save
> them some cash. The beam is new in it's original unopened
> shipping boxes. $786 shipped... save about $140
>
> Mike
>
>
>
> --
> Michael Melland, W9WIS
> Winneconne, WI USA
>
>
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>

883. Re: [hex-beam] FS: New HX-5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-13 17:26:38 UTC
From: Marty N5NW
Topic: 881 Message: 883

Oops. Sorry, my response should have gone privately. Again, sorry.

de N5NW/8 (Marty)
Bellbrook, Ohio

884. Re: [hex-beam] FS: New HX-5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-13 17:29:35 UTC
From: Ed Fox
Topic: 881 Message: 884

No problem Marty, Your wife said it was okay to buy it... :-)

>From: "Marty N5NW" <n5nw@...>
>Reply-To: hex-beam@yahoogroups.com
>To: <hex-beam@yahoogroups.com>
>Subject: Re: [hex-beam] FS: New HX-5bi
>Date: Tue, 13 Aug 2002 13:26:38 -0400
>
>Oops. Sorry, my response should have gone privately. Again, sorry.
>
>de N5NW/8 (Marty)
>Bellbrook, Ohio
>
>
>

_____
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885. Re: [hex-beam] FS: New HX-5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-13 18:24:25 UTC
From: Herbert Meiselman
Topic: 881 Message: 885

Marty...

We have not met, but I can assure you that your wife will say OK! After all, mine did. Plus, believe it or not, she has twice said "that antenna really does not look too bad".

Buy it...you will love it!

73s,

Herb K6HJM

At 05:29 PM 8/13/02 +0000, you wrote:
>No problem Marty, Your wife said it was okay to buy it... :-)
>
>
> >From: "Marty N5NW" <n5nw@...>
> >Reply-To: hex-beam@yahoogroups.com
> >To: <hex-beam@yahoogroups.com>
> >Subject: Re: [hex-beam] FS: New HX-5bi
> >Date: Tue, 13 Aug 2002 13:26:38 -0400
> >
> >Oops. Sorry, my response should have gone privately. Again, sorry.
> >
> >de N5NW/8 (Marty)
> >Bellbrook, Ohio
> >
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

886. tower install

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-14 00:30:38 UTC
From: gfts4u
Topic: 886 Message: 886

have another question. i have a tower with a hazer on it. will the hex beam clear the hazer or are there too many wires. it looks like it might clear it. please advise me. thanks 73 rich.

887. Does roofing affect performance?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-14 15:54:28 UTC
From: Marty N5NW
Topic: 887 Message: 887

I am contemplating a 5Bi purchase and have been told that roofs can detune the antenna. I have a standard shingle roof on 1 1/2 story (sunken basement), and was planning a 35 ft. tower installation. The antenna would end up at around 40 ft. or so, which would be 20 ft. higher than the roof surface.

Most of the photos on the web page show this type of installation. Does having the tower adjacent to the house present a problem with a standard shingle-type roof?

de N5NW/8 (Marty)
Bellbrook, Ohio

888. Re: Does roofing affect performance?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-14 18:56:45 UTC
From: w4wb
Topic: 887 Message: 888

--- In hex-beam@y..., "Marty N5NW" <n5nw@n...> wrote:
> I am contemplating a 5Bi purchase and have been told that roofs can
detune
> the antenna. I have a standard shingle roof on 1 1/2 story (sunken
> basement), and was planning a 35 ft. tower installation. The
antenna would
> end up at around 40 ft. or so, which would be 20 ft. higher than
the roof
> surface.
>
> Most of the photos on the web page show this type of installation.
Does
> having the tower adjacent to the house present a problem with a
standard
> shingle-type roof?
>
> de N5NW/8 (Marty)
> Bellbrook, Ohio

Hi Marty,

Yes, any structure you place near any antenna will affect its tuning and performance to one degree or another. You should have no problem the way you desribed your intended installation. Herb had one of the most interesting near-roof installations. After some fiddling, Herb is getting FB performance and happily working good DX. Hey Herb, how about a comment or two?

Now is a good time to get up the Hex-Beam. Propagation will soon be improving. Since last November, I have gone from 145 worked to about 275 worked (221 confirmed). First-rate antenna in both performance and construction.

73 de Barry - W4WB

889. Re: [hex-beam] Re: Does roofing affect performance?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-14 21:22:51 UTC
From: Herbert Meiselman
Topic: 887 Message: 889

Dear Marty and Barry:

Well, I'm not 100% sure my antenna situation is "interesting", but I can say that it works very well.

I live in a 2-story CA-Spanish house with a tile roof and a small central flat section. The HexBeam is on a short Glenn-Martin tower (5 feet I think), and I have a 2 foot mast on the tower itself. Thus, the antenna is about 6-7 feet above the roof, and about 30 feet above ground level.

All in all, I think you should have no problems. SO..buy it and enjoy it!

Oh, by the way, the lowest cost Yaesu rotator works great...and I have been told that a TV rotator is also OK.

73s,

Herb K6HJM

PS to Barry: Just bought an ICOM 756 PROII...best thing since sliced bread!!!!!! I love it!

At 06:56 PM 8/14/02 +0000, you wrote:
>--- In hex-beam@y..., "Marty N5NW" <n5nw@n...> wrote:
> > I am contemplating a 5Bi purchase and have been told that roofs can
>detune
> > the antenna. I have a standard shingle roof on 1 1/2 story (sunken
> > basement), and was planning a 35 ft. tower installation. The
>antenna would
> > end up at around 40 ft. or so, which would be 20 ft. higher than
>the roof
> > surface.
> >
> > Most of the photos on the web page show this type of installation.
>Does
> > having the tower adjacent to the house present a problem with a
>standard
> > shingle-type roof?
> >
> > de N5NW/8 (Marty)
> > Bellbrook, Ohio
>
>Hi Marty,
>
>Yes, any structure you place near any antenna will affect its tuning
>and performance to one degree or another. You should have no problem
>the way you desribed your intended installation. Herb had one of the

>most interesting near-roof installations. After some fiddling, Herb
>is getting FB performance and happily working good DX. Hey Herb, how
>about a comment or two?
>
>Now is a good time to get up the Hex-Beam. Propagation will soon be
>improving. Since last November, I have gone from 145 worked to about
>275 worked (221 confirmed). First-rate antenna in both performance
>and construction.
>
>73 de Barry - W4WB
>
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

890. Marty and the HX 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-15 01:16:22 UTC
From: k0fuz
Topic: 890 Message: 890

Marty, I have had my Hex beam for a little over a year. It is installed on a tubular crak up tower. It extends to 40 feet. It is attached to the house and we have a pitched roof made from cedar shingles. I am very pleased and having fun. It survived a major ice storm this past winter without a scratch. I have worked a bunch of countries.

Its design is effective and different enough that it does not look like the traditional beam - which helps with the neighbors.

Factory support is great - Mike Traffe and his family crew are all the kind of people you would like to do business with.

Take a look at my installation on qrz.com or the photo I have on this site.

I have given you "qualitative" answers but I have had very good luck with it!

891. FS measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-20 10:07:35 UTC
From: on4ccw
Topic: 891 Message: 891

Hi all, i've taken some readings with a fs meter (swr meter with a small antenna on top, had to make the antenna longer to have proper scaling) and there were two supprises :
- the max reading isn't always in front of the antenna (this is the case for two of the five bands) varies between 0 en 20 degrees deviation)
- the max reading isn't always where you expect it to be according to the swr readings and explenation found on this site .I wanted to know on what freq i had the max gain . you can see the result on my file map. the freq with max reading of fs is marked with a gray background.
i measured as followed:
fs meter one meter away from transmitter, lowered the antenna untill it was at the same hight as i am, this means the signal has to travel through the building.
I think i'll re- measure at full hight (36 feet) and try to position the fs meter as free as possible, hoping i still have a reading strong enough to see the needle move.
Any ideas anyone ? (for max gain measurements)
thanks. btw , made some nice (> 12.000 miles with 80watts) contacts
Peter

892. Re: FS measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-20 16:36:28 UTC
From: w6hb
Topic: 891 Message: 892

Hi Peter.....I am confused by your referenced file. Are your VSWR and R and Z readings taken with an MFJ-259? What is the height of your Hex when these readings were taken? What is in the near field? Do the readings change when you turn the antenna? Which data relates to your reported near-field readings? Do you have comparable data for 1st or 2nd hop distances? Is this the commercial 5 band Hex or a homebrew variation?.....73 - Doug - W6HB

--- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> Hi all, i've taken some readings with a fs meter (swr meter with
a
> small antenna on top, had to make the antenna longer to have proper
> scaling) and there were two supprises :
> - the max reading isn't always in front of the antenna (this is
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> case for two of the five bands) varies between 0 en 20 degrees
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to
> the swr readings and explenation found on this site .I wanted to
know
> on what freq i had the max gain . you can see the result on my file
> map. the freq with max reading of fs is marked with a gray
background.
> i measured as followed:
> fs meter one meter away from transmitter, lowered the antenna
untill
> it was at the same hight as i am, this means the signal has to
travel
> through the building.
> I think i'll re- measure at full hight (36 feet) and try to
> position the fs meter as free as possible, hoping i still have a
> reading strong enough to see the needle move.
> Any ideas anyone ? (for max gain measurements)
> thanks. btw , made some nice (> 12.000 miles with 80watts) contacts
> Peter

893. RE: [hex-beam] Re: FS measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-21 14:46:35 UTC
From: Peter Allaert
Topic: 891 Message: 893

HI Doug, i'll try to answer as far as i know (learning all the time...)
The results are measured with a MFJ-259B with the antenna at a hight of 36
feet (11 meters) The antenna is located close to my home (see foto's, i'll
take some better onces when i,have a better camera) but is about 3 meter
higher then the highest point of my roof.(45 degree angle-roof) I'll check
out the readings whilest turning the antenna . Don't understand the" which
data relates ...." question. Please clarify. Don't have data for 1st en 2nd
hop data . Can you help me out how to achieve this?
The antenna is homebrewed.
So that's it . Hope i'll get a bit smarter in the future!
Bye
Peter ON4CCW

. -----Oorspronkelijk bericht-----
Van: w6hb [mailto:w6hb@...]
Verzonden: dinsdag 20 augustus 2002 18:36
Aan: hex-beam@yahoogroups.com
Onderwerp: [hex-beam] Re: FS measurements

Hi Peter.....I am confused by your referenced file. Are your
VSWR and R and Z readings taken with an MFJ-259? What is the height
of your Hex when these readings were taken? What is in the near
field? Do the readings change when you turn the antenna? Which data
relates to your reported near-field readings? Do you have comparable
data for 1st or 2nd hop distances? Is this the commercial 5 band Hex
or a homebrew variation?.....73 - Doug - W6HB

--- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> Hi all, i've taken some readings with a fs meter (swr meter with
a
> small antenna on top, had to make the antenna longer to have proper
> scaling) and there were two supprises :
> - the max reading isn't always in front of the antenna (this is
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> case for two of the five bands) varies between 0 en 20 degrees
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> i measured as followed:
> fs meter one meter away from transmitter, lowered the antenna
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> it was at the same hight as i am, this means the signal has to travel
> through the building.
> I think i'll re- measure at full hight (36 feet) and try to
> position the fs meter as free as possible, hoping i still have a
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> Any ideas anyone ? (for max gain measurements)
> thanks. btw , made some nice (> 12.000 miles with 80watts) contacts
> Peter

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[Non-text portions of this message have been removed]

894. Re: FS measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-21 17:17:23 UTC
From: w6hb
Topic: 891 Message: 894

Hi Peter.....I figured out what you were trying to show with VSWR, FS and frequency. VSWR and maximum gain will not have any direct correlation. Anything conductive in the near field (the wire in your #3 photo, house wiring, etc.) and the fact that the currents in the driven element are not perfectly balanced will skew the pattern somewhat. To see what the antenna is really doing from a DX perspective, try the following. Establish QSOs with stations out about 1500 and 3000 miles. If QSB is minimal, while transmitting CW have them plot your apparent signal strength as you rotate the Hex. As no S meters are gospel dB wise, this will not give you a metric that any engineer will recognize, but will provide a rough idea of pattern. Keep up the great work and keep us informed on your findings.....73 - Doug - W6HB

--- In hex-beam@y..., Peter Allaert <peter.allaert@h...> wrote:
> HI Doug, i'll try to answer as far as i know (learning all the time...)
> The results are measured with a MFJ-259B with the antenna at a hight of 36
> feet (11 meters) The antenna is located close to my home (see foto's, i'll
> take some better onces when i,have a better camera) but is about 3 meter
> higher then the highest point of my roof.(45 degree angle-roof) I'll check
> out the readings whilest turning the antenna . Don't understand the" which
> data relates ...." question. Please clarify. Don't have data for 1st en 2nd
> hop data . Can you help me out how to achieve this?
> The antenna is homebrewed.
> So that's it . Hope i'll get a bit smarter in the future!
> Bye
> Peter ON4CCW
>
> . -----Oorspronkelijk bericht-----
> Van: w6hb [mailto:w6hb@a...]
> Verzonden: dinsdag 20 augustus 2002 18:36
> Aan: hex-beam@y...
> Onderwerp: [hex-beam] Re: FS measurements
>
>
> Hi Peter.....I am confused by your referenced file. Are your
> VSWR and R and Z readings taken with an MFJ-259? What is the height

> of your Hex when these readings were taken? What is in the near
> field? Do the readings change when you turn the antenna? Which data
> relates to your reported near-field readings? Do you have
comparable
> data for 1st or 2nd hop distances? Is this the commercial 5 band
Hex
> or a homebrew variation?.....73 - Doug - W6HB
>
>
>
>
> --- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> > Hi all, i've taken some readings with a fs meter (swr meter
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> a
> > small antenna on top, had to make the antenna longer to have
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> > case for two of the five bands) varies between 0 en 20 degrees
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> > on what freq i had the max gain . you can see the result on my
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> > map. the freq with max reading of fs is marked with a gray
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> > i measured as followed:
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> > through the building.
> > I think i'll re- measure at full hight (36 feet) and try to
> > position the fs meter as free as possible, hoping i still have a
> > reading strong enough to see the needle move.
> > Any ideas anyone ? (for max gain measurements)
> > thanks. btw , made some nice (> 12.000 miles with 80watts)
contacts
> > Peter
>
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>
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895. New Pics Here...

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-21 22:52:59 UTC
From: nlejklin
Topic: 895 Message: 895

http://fjuiekue.tripod.com/index.html

896. Re: FS measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-22 08:19:46 UTC
From: dl7io
Topic: 891 Message: 896

Hello Peter,
congrats on your fine work.
Let me give you some comments on measuring antenna gain.
If you are measuring on your home installation (antennas close to any environment like buildings, fences, power lines etc.) you will never get useful results. That was the reason for me to do the measurments in the countryside.
What is needed? You need the antenna installed in a proper height and the receiving antenna with the sensitive millivoltmeter far away (a few 100m would be good) at the same height. Between the antennas should be nothing. The feeding of the antennas is also critical. The best would be a transmitter/receiver direct at the feeding point without any coax cable. Coax cable will have an impact at any frequency and may cause some results that are difficult to understand. It would be the best to have a reference dipole for every frequency you want to measure. For a 5 band beam that means 5 dipoles.
For the receiving antenna it is important that it has no resonance in any of the measured bands. F.E. make a dipole much shorter than your smallest antenna. Otherwise you cant say anything about gain. The best is: Don't take the measured voltage for gain but compare it to the results with the reference dipol. This should be the basis for any results. Compare the antenna only with the results measured with your reference dipol. Because the influence of coax cable, resonances of the receiving antenna etc. will be nearly the same for both antennas.
By the way Peter, don't forget the impact of coax cable for your SWR-readings...
I hope I did not confuse you to much.
Holger
PS. My deepest sorrow for the passing away of your father.

898. Junk Postings

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-27 01:09:05 UTC
From: w4wb
Topic: 898 Message: 898

Hi Folks,

I'm sorry that the previous posting was by a spammer. I have banned and removed him, and deleted the message.

If we start getting more of these type messages, I will place the site on moderated status for all NEW members. If they proved to be a valid members, then they will be placed on unmoderated status as each of you are presently. We had to do this on the FT817 Group. On HFPack, Bonnie moderates every message. Bummer of a job!

Now the good news. Bands are getting better. I got a 30/9 report from a PY on 10 m today. 15 m was wide open and 12 m wasn't bad. 18 m was excellent. Fellow in Poland and I had a chat that was like sitting in the room with each other.

Don't forget that Jake is on Wake Is. now till mid September and is operating from about 0600-0800Z around 14.260-264. He is new to working pileups and likes to get your name and QTH. Goes by the #'s and areas. This is a relative rare one (#83) and will get rarer very soon.

Cocos-Keeling Is is on for a few days more on 15 m RTTY & SSTV. Good luck!

73,
Barry - W4WB
Hex-Beam Group Moderator

899. RE: [hex-beam] Re: FS measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-08-27 10:43:33 UTC
From: Peter Allaert
Topic: 891 Message: 899

Thanks for the info Holger. Got the general idea. But performing it, is something else. Need time, and space! I have for the moment an trapped inverted V which is about 3 meters lower. Maybe i can take some measurements with a ham located about 3 km away. It's not ideal , but it will give me an idea conserning the best freq on each band and main radiaton-direction. Can't leave the effect of coax ou this way , but i don't see an practical solution. the idea from Doug is fine as long as you have a solid and constant signal i think. Also thanks Doug . Have to think this one through...
Peter

-----Oorspronkelijk bericht-----
Van: dl7io [mailto:dl7io@...]
Verzonden: donderdag 22 augustus 2002 10:20
Aan: hex-beam@yahoogroups.com
Onderwerp: [hex-beam] Re: FS measurements

Hello Peter,
congrats on your fine work.
Let me give you some comments on measuring antenna gain.
If you are measuring on your home installation (antennas close to any environment like buildings, fences, power lines etc.) you will never get useful results. That was the reason for me to do the measurments in the countryside.
What is needed? You need the antenna installed in a proper height and the receiving antenna with the sensitive millivoltmeter far away (a few 100m would be good) at the same height. Between the antennas should be nothing. The feeding of the antennas is also critical. The best would be a transmitter/receiver direct at the feeding point without any coax cable. Coax cable will have an impact at any frequency and may cause some results that are difficult to understand. It would be the best to have a reference dipole for every frequency you want to measure. For a 5 band beam that means 5 dipoles. For the receiving antenna it is important that it has no resonance in any of the measured bands. F.E. make a dipole much shorter than your smallest antenna. Otherwise you cant say anything about gain. The best is: Don't take the measured voltage for gain but compare it to the results with the reference dipol. This should be the basis for any results. Compare the antenna only with the results measured with your reference dipol. Because the influence of coax cable, resonances of the receiving antenna etc. will be nearly the same for both antennas.
By the way Peter, don't forget the impact of coax cable for your SWR-readings...
I hope I did not confuse you to much.

Holger
PS. My deepest sorrow for the passing away of your father.

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[Non-text portions of this message have been removed]

900. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-04 13:28:52 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 900

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /DL7IO/Refl-W-40-data.xls
Uploaded by : dl7io <dl7io@...>
Description : SWR, gain & F/B values for a 40 m version with different wire strength

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/DL7IO/Refl-W-40-data.xls

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

dl7io <dl7io@...>

901. New Hex Beam Going up in New Mexico

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-05 13:16:54 UTC
From: kr4vp
Topic: 901 Message: 901

My HX-5Bi arrived last night. Might want to take today off....
Dave
WA5NM
Carlsbad,NM

902. Re: [hex-beam] New Hex Beam Going up in New Mexico

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-05 16:37:48 UTC
From: Ed Fox
Topic: 901 Message: 902

Great! Send out an email to the group when you are ready to test it (time & freq). I'm very happy with mine. Ed, KB0OKV (MN).

>From: "kr4vp" <dstorm@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] New Hex Beam Going up in New Mexico
>Date: Thu, 05 Sep 2002 13:16:54 -0000
>
>My HX-5Bi arrived last night. Might want to take today off....
>Dave
>WA5NM
>Carlsbad,NM
>

_____
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903. Re: New Hex Beam Going up in New Mexico

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-05 18:21:16 UTC
From: w6hb
Topic: 901 Message: 903

Welcome to the "club" Dave. Hope you'll be as pleased as the rest of us! E-mail for skeds!

Doug - W6HB

--- In hex-beam@y..., "kr4vp" <dstorm@z...> wrote:
> My HX-5Bi arrived last night. Might want to take today off....
> Dave
> WA5NM
> Carlsbad,NM

904. Re: New Hex Beam Going up in New Mexico

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-06 01:12:30 UTC
From: tomac14
Topic: 901 Message: 904

Hi Dave:

Congratulations on your Hexbeam purchase.

I think you'll really like it. I really like mine. What a great investment.

Tom, NØYD "Yankee Doodle"

--- In hex-beam@y..., "kr4vp" <dstorm@z...> wrote:
> My HX-5Bi arrived last night. Might want to take today off....
> Dave
> WA5NM
> Carlsbad,NM

905. Delivery time

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-06 03:53:56 UTC
From: n9bf
Topic: 905 Message: 905

What's the approximate delivery time from placing the order by phone until actual delivery? thanks, Bob

906. Re: Delivery time

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-06 05:05:27 UTC
From: w6hb
Topic: 905 Message: 906

Mike is usually ships UPS the next business day if the model you order is built up and in stock. If not, you will know the details when you call in your order.

73 - Doug - W6HB

--- In hex-beam@y..., "n9bf" <n9bf@a...> wrote:
> What's the approximate delivery time from placing the order by phone
> until actual delivery? thanks, Bob

908. HexBeam up in New Mexico

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-08 13:32:25 UTC
From: kr4vp
Topic: 908 Message: 908

HX-5Bi # 249 is up and working GREAT.....
Assembly went smooth as silk, Quality of product is Excellent.!
Only problem is neighbors stopping out front and asking " What is
It "
Might get a couple new "hams" after explaining what Amateur Radio is
all about.

Will upload a couple of pics this week.

Best 73's
Dave
WA5NM

909. Re: Delivery time

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-08 13:37:02 UTC
From: kr4vp
Topic: 905 Message: 909

Bob, order my beam, and delivered 5 days. (Labor day slowed it down
a bit). Very Happy with my new HX-5Bi....
73's
Dave
WA5NM
Carlsbad, New Mexico

911. Painting the Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-12 18:22:50 UTC
From: n6tz
Topic: 911 Message: 911

Has anyone spray painted their Traffie Hex with flat grey primer like
Rustoleum to reduce the reflection of the white arms and bright
copper wire?
Did it change the beam characteristics?

Hal, N6TZ

912. Re: [hex-beam] Painting the Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-12 21:36:34 UTC
From: Herbert Meiselman
Topic: 911 Message: 912

Hal:

I painted mine with grey primer (Rustoleum) and it seems to work great! I did not test it prior to this painting since I wanted to hide it as much as possible as soon as possible.

By the way, I tried not to paint the ends of the wires where they were attached to the mast or to the screw connectors.

73,

Herb K6HJM

At 06:22 PM 9/12/02 +0000, you wrote:
>Has anyone spray painted their Traffie Hex with flat grey primer like
>Rustoleum to reduce the reflection of the white arms and bright
>copper wire?
>Did it change the beam characteristics?
>
>Hal, N6TZ
>
>
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

913. Re: [hex-beam] Painting the Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-12 21:39:55 UTC
From: Bill Archer
Topic: 911 Message: 913

Yes I did and no it didn't. I painted the spreaders only, the copper will oxidize and darken quick enough. I would suggest using a couple of different colors to create a camouflage pattern, this helps make the spreaders less visible against the sky. You might use gray primer, flat black, and a flat blue if you can find one.

KC5GNB

n6tz wrote:

> Has anyone spray painted their Traffie Hex with flat grey primer like
>
> Rustoleum to reduce the reflection of the white arms and bright
> copper wire?
> Did it change the beam characteristics?
>
> Hal, N6TZ
>
>
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[Non-text portions of this message have been removed]

916. Hex-Beam #242

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-15 00:01:50 UTC
From: k1epj
Topic: 916 Message: 916

I just installed Hex-Beam HX5i #242 on a WT-51 crankup tower.
I was lucky enough to buy my antenna from the person who won it at the New England ARRL convention in Boxboro MA. (not as lucky as he was). I managed to get it at quite a sevings. So far so good. I am really impressed with the performance.
Dave N1IX

917. Re: Hex-Beam #242

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-15 00:05:33 UTC
From: w4wb
Topic: 916 Message: 917

--- In hex-beam@y..., "k1epj" <RadioN1IX@a...> wrote:
> I just installed Hex-Beam HX5i #242 on a WT-51 crankup tower.
> I was lucky enough to buy my antenna from the person who won it at
> the New England ARRL convention in Boxboro MA. (not as lucky as he
> was). I managed to get it at quite a sevings. So far so good. I am
> really impressed with the performance.
> Dave N1IX

Congratulations Dave. Let us know how you enjoy it!

73,
Barry - W4WB

918. Re: Hex-Beam #242

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-15 04:38:21 UTC
From: w6hb
Topic: 916 Message: 918

Congratulations! I hope you find it to add as much to your operations as I have. Have you run any tests between the full 51' plus height of the W51 and the Traffie recommended maximum of 40'? I run at about 31' and have consistently good results. 73 - Doug - W6HB

--- In hex-beam@y..., "k1epj" <RadioN1IX@a...> wrote:
> I just installed Hex-Beam HX5i #242 on a WT-51 crankup tower.
> I was lucky enough to buy my antenna from the person who won it at
> the New England ARRL convention in Boxboro MA. (not as lucky as he
> was). I managed to get it at quite a sevings. So far so good. I am
> really impressed with the performance.
> Dave N1IX

919. P5/4L4FN Hex-Beam Status

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-15 13:59:42 UTC
From: w4wb
Topic: 919 Message: 919

Ed is back on the air with the 10 & 15 m Hex-Beam erected upon the heavy-duty HDX-30 mast from Traffie. Hopefully, you will now have a better opportunity to work him!

73,
Barry - W4WB

920. Re: Tower Height vs Lobe Pattern

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-15 15:37:02 UTC
From: IslPilot@aol.com
Topic: 920 Message: 920

Hello Group:

Have been sitting on the sidelines but am finely getting to the installation and am concerned about mounting the Hex 5bi on my 65 foot tower. After searching the archives, and following the messages over the last 18 months, 65' is indicated to be too high. I am curious if any of you can give me an idea what type of signal/lobe pattern and distance I am going to be optimized for at the 65' height.

Tnx in Advance,

Paul
KB8VWV
Charlevoix, MI

921. Re: Tower Height vs Lobe Pattern

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-15 16:01:20 UTC
From: ad1y1
Topic: 920 Message: 921

Hi Paul,

I recently put my Hex Beam on top of a 75 foot tower (the 20 meter elements are now about 80 feet off the ground).

I can't make direct A/B comparisons to other heights, but in the past I have had my Hex Beam at 35, 45, and 55 feet off the ground.

For whatever it's worth, I have noticed no degradation in performance as I have put the antenna higher. I primarily work DX, and Mike has told me that it should perform better for DX work at higher heights, particularly under marginal conditions, with a lessening in performance for stateside contacts.

Whether it is imaginary or wishful thinking, I am noticing stronger signals, particularly on 10 meters, at the new height. Again, Mike indicated to me that this was to be expected.

I am quite pleased with its performance at 75-80 feet. Again, I can offer no better than my own anecdotal evidence, but I wish you luck at whatever height you decide to put it up. Obviously, it performs quite well even at lower heights, as my experience with it also attests.

Good luck and

73,

Tony, AD1Y

--- In hex-beam@y..., IslPilot@a... wrote:
> Hello Group:
>
> Have been sitting on the sidelines but am finely getting to the installation
> and am concerned about mounting the Hex 5bi on my 65 foot tower. After
> searching the archives, and following the messages over the last 18 months,
> 65' is indicated to be too high. I am curious if any of you can give me an
> idea what type of signal/lobe pattern and distance I am going to be optimized
> for at the 65' height.
>
> Tnx in Advance,
>

> Paul
> KB8VWV
> Charlevoix, MI

922. Re: Tower Height vs Lobe Pattern

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-15 19:35:09 UTC
From: w4wb
Topic: 920 Message: 922

Hi Tony,

Good to hear how the high HB is working at your QTH.

I think Mike Traffie is the only person that has multiple Hex-Beams at different heights operating at the same time. If I remember correctly, they were at 35', 60', and 90'. As usual, the answer upon which is best depended upon the condition of the ionosphere, time (date), and QTHs being worked. The higher you take the HB, the lower the radiation angle (no surprise there) and teh creation of nulls. In general, Mike said the lower one worked the best, but at times, the mid or higher would be far better.

My goal is to have the antenna on a motorized crankup tower for yet one more knob to tweak --- adjust height as needed. :-)

73,
Barry - W4WB

923. Re: Tower Height vs Lobe Pattern

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-15 20:54:05 UTC
From: ad1y1
Topic: 920 Message: 923

Hi Barry,

Yes, a motorized crank-up tower would certainly be a great way to vary the height according to need.

Mine is a military surplus crank-up using aluminum tubes so motorization is not feasible.

The HB has not disappointed at any height I've had it thus far. I'm just glad that some of the reservations about going higher have thus far not manifested themselves for DX purposes in my own experience. Of course it's possible that I may have had better signal reports at lower heights, but the higher height hasn't prevented me from making the contacts needed.

Mike mentioned the same thing to me that his HB at lower height generally performs better, especially stateside, but that the antenna at 90' was better at DX at grayline and long-haul.

(Not to mention that I think it just looks so much cooler "way up" at 75-80 feet!)

Good luck with your motorized tower project!

73,

Tony, AD1Y

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Hi Tony,
>
> Good to hear how the high HB is working at your QTH.
>
> I think Mike Traffie is the only person that has multiple Hex-Beams
> at different heights operating at the same time. If I remember
> correctly, they were at 35', 60', and 90'. As usual, the answer
upon
> which is best depended upon the condition of the ionosphere, time
> (date), and QTHs being worked. The higher you take the HB, the
lower
> the radiation angle (no surprise there) and teh creation of nulls.
> In general, Mike said the lower one worked the best, but at times,
> the mid or higher would be far better.
>
> My goal is to have the antenna on a motorized crankup tower for yet
> one more knob to tweak --- adjust height as needed. :-)
>

> 73,
> Barry - W4WB

924. Re: [hex-beam] Re: Tower Height vs Lobe Pattern

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-16 00:03:09 UTC
From: IslPilot@aol.com
Topic: 920 Message: 924

Thank you both Tony & Barry your comments and information are very much appreciated. We will go forward with the 65' installation.

Paul
KB8VWV
Charlevoix, MI

925. Re: Tower Height vs Lobe Pattern

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-16 00:05:50 UTC
From: w4wb
Topic: 920 Message: 925

Hi Tony,

I couldn't agree with you more. When installed properly, the Hex-Beam seems to perform well from close to the roof to way up there.

How about posting a photo of your current installation in the phot section? Am sure others would like to see it too.

BTW, what is your present count now? Busted 325 yet?

As far as if your signal would have been stronger at some of the DX stations, who cares? All that really is important is to make the contact (and make it on the 1st or 2nd call ;-))!

73,
Barry - W4WB

--- In hex-beam@y..., "ad1y1" <ad1y@a...> wrote:
> Hi Barry,
>
> Yes, a motorized crank-up tower would certainly be a great way to
> vary the height according to need.
>
> Mine is a military surplus crank-up using aluminum tubes so
> motorization is not feasible.
>
> The HB has not disappointed at any height I've had it thus far.
I'm
> just glad that some of the reservations about going higher have
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> far not manifested themselves for DX purposes in my own
experience.
> Of course it's possible that I may have had better signal reports
at
> lower heights, but the higher height hasn't prevented me from
making
> the contacts needed.
>
> Mike mentioned the same thing to me that his HB at lower height
> generally performs better, especially stateside, but that the
antenna
> at 90' was better at DX at grayline and long-haul.
>
> (Not to mention that I think it just looks so much cooler "way up"
at
> 75-80 feet!)

>
> Good luck with your motorized tower project!
>
> 73,
>
> Tony, AD1Y
>

926. Pleaese turn your beam to notrh west

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-16 00:27:07 UTC
From: Makoto Tanaka
Topic: 926 Message: 926

Hi friends,

I worked NC and PA this morning at 28.356MHz. Condition is getting favorable between NA and JA. I will try to listen to this frequency on Sunday morning (your Saturday afternoon).

73 - JR1NHD Shin

928. Re: Tower Height vs Lobe Pattern

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-16 01:44:20 UTC
From: ad1y1
Topic: 920 Message: 928

--- In hex-beam@y..., IslPilot@a... wrote:
> Thank you both Tony & Barry your comments and information are very
much
> appreciated. We will go forward with the 65' installation.
>
> Paul
> KB8VWV
> Charlevoix, MI

You're more than welcome Paul and, again, best of luck with the
installation.

73,

Tony, AD1Y

929. Re: Tower Height vs Lobe Pattern

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-16 02:42:56 UTC
From: ad1y1
Topic: 920 Message: 929

Barry,

I'll try to get a decent photo to upload. It's somewhat difficult because my HB is surrounded by trees, and with an olive drab tower the installation is virtually invisible. I'll try to get an angle that's conducive to a decent photo.

Another thing I'm noticing with the antenna above 75 feet is that the amp is in standby mode more often than not.

The current count (in 5 and half years as a ham, 5 with HB) is 324 worked/323 confirmed so far (waiting for Ducie card to arrive in mail). Hopefully the CY0 operation will take place as scheduled.

Anyway, good talking with you again and hope to see you on the bands.

73,

Tony, AD1Y

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Hi Tony,
>
> I couldn't agree with you more. When installed properly, the Hex-
> Beam seems to perform well from close to the roof to way up there.
>
> How about posting a photo of your current installation in the phot
> section? Am sure others would like to see it too.
>
> BTW, what is your present count now? Busted 325 yet?
>
> As far as if your signal would have been stronger at some of the DX
> stations, who cares? All that really is important is to make the
> contact (and make it on the 1st or 2nd call ;-))!
>
> 73,
> Barry - W4WB

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Hi Tony,
>
> I couldn't agree with you more. When installed properly, the Hex-
> Beam seems to perform well from close to the roof to way up there.
>
> How about posting a photo of your current installation in the phot
> section? Am sure others would like to see it too.
>

> BTW, what is your present count now? Busted 325 yet?
>
> As far as if your signal would have been stronger at some of the DX
> stations, who cares? All that really is important is to make the
> contact (and make it on the 1st or 2nd call ;-))!
>
> 73,
> Barry - W4WB
>
>
> --- In hex-beam@y..., "ad1y1" <ad1y@a...> wrote:
> > Hi Barry,
> >
> > Yes, a motorized crank-up tower would certainly be a great way to
> > vary the height according to need.
> >
> > Mine is a military surplus crank-up using aluminum tubes so
> > motorization is not feasible.
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> > The HB has not disappointed at any height I've had it thus far.
> I'm
> > just glad that some of the reservations about going higher have
> thus
> > far not manifested themselves for DX purposes in my own
> experience.
> > Of course it's possible that I may have had better signal reports
> at
> > lower heights, but the higher height hasn't prevented me from
> making
> > the contacts needed.
> >
> > Mike mentioned the same thing to me that his HB at lower height
> > generally performs better, especially stateside, but that the
> antenna
> > at 90' was better at DX at grayline and long-haul.
> >
> > (Not to mention that I think it just looks so much cooler "way
up"
> at
> > 75-80 feet!)
> >
> > Good luck with your motorized tower project!
> >
> > 73,
> >
> > Tony, AD1Y
> >

930. Hello to all

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-16 03:19:16 UTC
From: Meiselman
Topic: 930 Message: 930

Just a fast note to say hello (HELLO!) and to say that the HB is still doing great things for me. The count (confirmed) is very close to 200 and seems to grow bit by bit. Just added a new radio (ICOM 756 ProII) which works very well with the HB. By the way, I still do not bother to use an antenna tuner...my MFJ now functions only as a power meter when I use the MFJ switch to connect to the dummy load for tuning the amp.

73 to all, and to any Jewish HB users...best wishes for the New Year.

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

931. P5/4L4FN Hex-Beam Now Up Again!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-16 07:16:49 UTC
From: w4wb
Topic: 931 Message: 931

For the latest photos of Ed's (P5/4L4FN) new installation of the 10 and 15 m Hex-Beam, see http://www.amsatnet.com/edhex.html. The vertical is the Butternut. Looks like this installation will stay up!

73,
Barry - W4WB

932. some new pics int he photo section

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-16 08:37:07 UTC
From: dl7io
Topic: 932 Message: 932

Hello,
I add some pictures from ZB0/DL7IO and F/DL7IO installation in the
photo section under DL7IO.
best regards
Holger

933. Another one up in the air

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-16 18:31:58 UTC
From: n6tz
Topic: 933 Message: 933

KI6YN is now pumping CW through the Traffie Hex from Ventura County.
Pictures are posted with the title "Traffie Hex at KI6YN".

935. RE: [hex-beam] P5/4L4FN Hex-Beam Now Up Again!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-17 06:59:19 UTC
From: Peter Allaert
Topic: 931 Message: 935

Hello Barry, i can't seem to open the web-page. Anyone else having
problems??
73
Peter

-----Oorspronkelijk bericht-----
Van: w4wb [mailto:w4wb@...]
Verzonden: maandag 16 september 2002 09:17
Aan: hex-beam@yahoogroups.com
Onderwerp: [hex-beam] P5/4L4FN Hex-Beam Now Up Again!

For the latest photos of Ed's (P5/4L4FN) new installation of the 10
and 15 m Hex-Beam, see http://www.amsatnet.com/edhex.html.
<http://www.amsatnet.com/edhex.html.> The
vertical is the Butternut. Looks like this installation will stay up!

73,
Barry - W4WB

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get=mm/g22lp.tmpl>

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936. AFTER THREE DAYS WITH 5 BAND HEXBEAM AT 23 FEET

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-17 14:19:13 UTC
From: fredki6yn
Topic: 936 Message: 936

I moved to a new QTH with a national park bordering my backyard. I wanted an antenna that wouldn't cause 'problems' with the neighbors even though there are no CC&Rs; at my old QTH I had a 2 element cubical quad up 55 feet. N6TZ and I put up the hexbeam on my tower; I left the tower down at 23 feet and see no reason to crank it up! Amazing, I only work CW and have worked Russia, Japan, and all over the eastcoat QRP on 20 meters!

I used my Icom 756 PRO to take a look at the antenna's characteristics on the air. Awesome is an understatement, watching the pan display as I rotated the antenna, signals at 40 dB disappeared at the side i.e. going from east to North. I'm not saying that the front to side ratio is 40 dB, but there were several big signals on the display that disappeared. The front to back apeared to be about 24 to 28 dB. Of course these are not accurate but probably indicative of the antenna's performance. The preceding was done with both preamps secured, so the 40 dB reading was above the noise or about equivalent to S9.

One must take into account that I'm up on a hillside. Working DX stations can be an artifac of skip conditions and polarity at time of arrival or even multipath. But the bottom line is that I'm having a blast and you can't see the antenna from the street because it is behind two trees and just barely above the roofline.

I ragchew, I don't chase cardboard and will only answer a DX call if I think there is going to be a ragchew in it. Not a T U QSL via Buro type thing.

My primary rig is a Ten Tec Omni 6 Plus and with the Hexbeam, it doesn't get any better!

The antenna took about an hour and a half to put together and the directions were great. The quality of materials and workmanship are excellent. To those that say it is expensive, I invite them to spend the time it must have taken to perfect this design. Antenna, especially multiband antennas, are as much experimentation as analytical to get them to work. I think the antenna is a great deal. I'd recommend it to anyone.

Yes, this weekend it will go up during the evening to see what the difference in performance is at different heights on all bands! I will let you know the results.

Yes, it can be loaded, using a tuner, on 40 meters and I did that, but then again, you can load anything with the right tuner. I will still go for a 40 meter wire hidden in the trees!

73,
Fred

937. Re: AFTER THREE DAYS WITH 5 BAND HEXBEAM AT 23 FEET

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-17 14:25:27 UTC
From: w4wb
Topic: 936 Message: 937

Great report Fred. We await your next report!
73,
Barry - W4WB

938. Re: AFTER THREE DAYS WITH 5 BAND HEXBEAM AT 23 FEET

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-17 15:30:21 UTC
From: w6hb
Topic: 936 Message: 938

Glad you like your new umbrella, Fred. Mounted upside-down like that
they work great and catch more than rain! Nice QSL card even though I
operate "all others." I would love to work you on phone. I am told
Ten Tec gear does also have a microphone input. Having had my HX-5Bi
for about a year now, your results mirror mine at a height of ~31'
ans never more than 100 watts. The HexNuts have tried to establish
SSB common frequencies and have had some requests for CW get
togethers as well. Would you be willing to start something along this
line? Please let W4WB or me know if you are interested. I have 75 and
40 meter capabilities if you want to stoop to a SSB
ragchew! 73 - Doug - W6HB

--- In hex-beam@y..., "fredki6yn" <fredki6yn@y...> wrote:
> I moved to a new QTH with a national park bordering my backyard. I
> wanted an antenna that wouldn't cause 'problems' with the neighbors
> even though there are no CC&Rs; at my old QTH I had a 2 element
> cubical quad up 55 feet. N6TZ and I put up the hexbeam on my tower;
I
> left the tower down at 23 feet and see no reason to crank it up!
> Amazing, I only work CW and have worked Russia, Japan, and all over
> the eastcoat QRP on 20 meters!
>
> I used my Icom 756 PRO to take a look at the antenna's
> characteristics on the air. Awesome is an understatement, watching
> the pan display as I rotated the antenna, signals at 40 dB
> disappeared at the side i.e. going from east to North. I'm not
saying
> that the front to side ratio is 40 dB, but there were several big
> signals on the display that disappeared. The front to back apeared
to
> be about 24 to 28 dB. Of course these are not accurate but probably
> indicative of the antenna's performance. The preceding was done
with
> both preamps secured, so the 40 dB reading was above the noise or
> about equivalent to S9.
>
> One must take into account that I'm up on a hillside. Working DX
> stations can be an artifac of skip conditions and polarity at time
of
> arrival or even multipath. But the bottom line is that I'm having a
> blast and you can't see the antenna from the street because it is
> behind two trees and just barely above the roofline.
>
> I ragchew, I don't chase cardboard and will only answer a DX call
if

> I think there is going to be a ragchew in it. Not a T U QSL via
Buro
> type thing.
>
> My primary rig is a Ten Tec Omni 6 Plus and with the Hexbeam, it
> doesn't get any better!
>
> The antenna took about an hour and a half to put together and the
> directions were great. The quality of materials and workmanship are
> excellent. To those that say it is expensive, I invite them to
spend
> the time it must have taken to perfect this design. Antenna,
> especially multiband antennas, are as much experimentation as
> analytical to get them to work. I think the antenna is a great
deal.
> I'd recommend it to anyone.
>
> Yes, this weekend it will go up during the evening to see what the
> difference in performance is at different heights on all bands! I
> will let you know the results.
>
> Yes, it can be loaded, using a tuner, on 40 meters and I did that,
> but then again, you can load anything with the right tuner. I will
> still go for a 40 meter wire hidden in the trees!
>
> 73,
> Fred

939. HEX BEAM UNDER CONSTRUCTION

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-17 20:49:58 UTC
From: b3s7a00@aol.com
Topic: 939 Message: 939

Hi Im tony schulte KC0lnd in eden prairie MN.
I am sort of new to the mail list, but from what I can tell, it is a great palce for discussion. Anyway, I joined a few days ago to gather info on hexbeams, and thier performance. I recently made a trip to the hardware store to get the parts for my first Hex beam homebrew antenna. I am using 10 ft 1/2 inch TW PVC for the element spreaders, and a piece of plywood for the hub. I have it all framed up, and have yet to install elements. weight is 20 lbs. I have a few questions reguarding the project...
1. Will a TV rotator beable to rotate a 25-30 pound hexbeam? (weight estimate allows for snow, etc.)
2. is there a way I can tune it with few special instroments?
Thanks for any response.
-Tony

[Non-text portions of this message have been removed]

940. Photo uploaded

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-17 23:50:37 UTC
From: ad1y1
Topic: 940 Message: 940

Hi all.

Just uploaded a photo of the Hex Beam on top of 75 foot military crankup tower.

Hope to talk with you on the bands.

73,

Tony, AD1Y

941. New HexHOME Frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 05:40:59 UTC
From: w4wb
Topic: 941 Message: 941

Please note that we have changed the times for the Hex-Beam User meetings. This was done to help take advantage of variations in propagation by having the times within a single hour, twice a day. The 12 m band was also dropped.

Hope to hear you on the bands!

73,
Barry - W4WB
Moderator

942. Meeting Frequencies and Times

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 11:00:24 UTC
From: w4wb
Topic: 942 Message: 942

Sorry folks, I forgot that some of you don't use a browser to view the messages. The meeting times and frequencies are shown on the home page of this group and below. If these times are not good for you, please propose other

28356 MHz 0000Z; 1200Z
21356 MHz 0015Z; 1215Z
18156 MHz 0030Z; 1230Z
14256 MHz 0045Z; 1245Z

73,
Barry - W4WB

943. RE: [hex-beam] Meeting Frequencies and Times

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 13:44:37 UTC
From: Peter Allaert
Topic: 942 Message: 943

thanks Barry for the info. I suppose the z stands for zonal time; what timezone are you in?
Peter

-----Oorspronkelijk bericht-----
Van: w4wb [mailto:w4wb@...]
Verzonden: donderdag 19 september 2002 13:00
Aan: hex-beam@yahoogroups.com
Onderwerp: [hex-beam] Meeting Frequencies and Times

Sorry folks, I forgot that some of you don't use a browser to view the messages. The meeting times and frequencies are shown on the home page of this group and below. If these times are not good for you, please propose other

28356 MHz 0000Z; 1200Z
21356 MHz 0015Z; 1215Z
18156 MHz 0030Z; 1230Z
14256 MHz 0045Z; 1245Z

73,
Barry - W4WB

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<http://rd.yahoo.com/M=234081.2377872.3808768.2225242/D=egroupweb/S=1705063108:HM/A=1225247/R=0/*http://ad.doubleclick.net/clk;4547223;7007303;y?http://www.ameriquestmortgage.com/welcome.html?ad=Yahoo01>

<http://us.adserver.yahoo.com/l?M=234081.2377872.3808768.2225242/D=egroupmail/S=:HM/A=1225247/rand=275941815>

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[Non-text portions of this message have been removed]

944. Re: Meeting Frequencies and Times

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 15:43:27 UTC
From: w4wb
Topic: 942 Message: 944

--- In hex-beam@y..., Peter Allaert <peter.allaert@h...> wrote:
> thanks Barry for the info. I suppose the z stands for zonal time;
what
> timezone are you in?
> Peter
>

Hi Peter,
I am in the Central Time Zone (CST) and still saving daylight (CDT).
The "Z" stands for ZULU which is the same as GMT, UTC, ...

I have had additional input about times. It has been suggested that
we not have a specific hour, but listen/call on 10 minute slots on
the different bands.

The following is the proposal.

10 m On the hour
12 m 10 min. after the hour
15 m 20 min. after the hour
17 m 30 min. after the hour
20 m 40 min. after the hour.

Frequencies remain the same.

Please let me know your thoughts. EVERYONE, please let me know if
you like this approach or not, ir have another suggestion. Either
send direct email to me or post it.

Tnx es 73,
Barry - W4WB

945. Re: [hex-beam] Re: Meeting Frequencies and Times

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 16:43:37 UTC
From: Eric Carling
Topic: 942 Message: 945

My thoughts are that if the pool of Hexbeam users are looking over different hours the likelyhood of finding others is reduced. I would prefer a specific time or perhaps just 2 different times.

I had a listen today on 21356 and 18156 and got no replies to my calls. I have to yet to work anyone with a Hexbeam (except P5 but he was on his vertical!)

73 de Eric G0CGL.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 19 September 2002 15:42:11
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Meeting Frequencies and Times

--- In hex-beam@y..., Peter Allaert <peter.allaert@h...> wrote:
> thanks Barry for the info. I suppose the z stands for zonal time; what
> timezone are you in?
> Peter
>

Hi Peter,
I am in the Central Time Zone (CST) and still saving daylight (CDT).
The "Z" stands for ZULU which is the same as GMT, UTC, ...

I have had additional input about times. It has been suggested that we not have a specific hour, but listen/call on 10 minute slots on the different bands.

The following is the proposal.

10 m On the hour
12 m 10 min. after the hour
15 m 20 min. after the hour
17 m 30 min. after the hour
20 m 40 min. after the hour.

Frequencies remain the same.

Please let me know your thoughts. EVERYONE, please let me know if you like this approach or not, ir have another suggestion. Either send direct email to me or post it.

Tnx es 73,
Barry - W4WB

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.

[Non-text portions of this message have been removed]

946. Re: [hex-beam] Re: Meeting Frequencies and Times

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 16:46:04 UTC
From: Nigel Gunn
Topic: 942 Message: 946

----- Original Message -----
From: "w4wb" <w4wb@...>
> I am in the Central Time Zone (CST) and still saving daylight (CDT).
> The "Z" stands for ZULU which is the same as GMT, UTC, ...

Internationally, you're in Sierra time zone, Barry. Central may not mean much to those on other continents.
de Nigel G8IFF

Time zone letter abbreviations
The basis for this is Z - Zulu time - Zero meridian time - the same as UTC
It's a convention to assign letters to time zones, where Z= Zero meridian, and Zulu is the word that represents the letter Z, when it's used in communication. It is sometimes used in the US Military and NATO in conjunction with 24 hour clocks, and is also popular to use in movies to reference time.

Other letters/words are used for other time zones than UTC, most based on the right or reverse order of the Alphabet, although 'J' is skipped ('J' refers to current local time of the observer) (there are 25 time zones defined here, but 26 letters in the alphabet), Zulu is an exception to this, in the middle, here from the International Date Line, going west, until the International Date Line is reached again. Letter Word Difference
Y Yankee UTC - 12 hours
X Xray UTC - 11 hour
W Whiskey UTC - 10 hour
V Victor UTC - 9 hour
U Uniform UTC - 8 hour
T Tango UTC - 7 hour
S Sierra UTC - 6 hour
R Romeo UTC - 5 hour
Q Quebec UTC - 4 hour
P Papa UTC - 3 hour
O Oscar UTC - 2 hour
N November UTC - 1 hour
Z Zulu same as UTC
A Alpha UTC + 1 hour
B Bravo UTC + 2 hours
C Charlie UTC + 3 hours
D Delta UTC + 4 hours
E Echo UTC + 5 hours
F Foxtrot UTC + 6 hours
G Golf UTC + 7 hours
H Hotel UTC + 8 hours
I India UTC + 9 hours
K Kilo UTC + 10 hours

L Lima UTC + 11 hours
M Mike UTC + 12 hours
International Date Line is between
time zones M and Y (24 hours/one day differs)
The letter 'J' for 'Juliet' is used to refer to local time of the observer.

947. Re: [hex-beam] Re: Meeting Frequencies and Times

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 16:49:58 UTC
From: Nigel Gunn
Topic: 942 Message: 947

There's a good timezone map at
http://aa.usno.navy.mil/faq/docs/world_tzones.html

----- Original Message -----
From: "Nigel Gunn" <nigel@...>
To: <hex-beam@yahoogroups.com>

948. Re: [hex-beam] Re: Meeting Frequencies and Times

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 17:35:13 UTC
From: RadioN1IX@aol.com
Topic: 942 Message: 948

Those are all SSB frequencies doesn't anyone use CW and a HexBeam besides myself?

Dave N1IX

949. Another homebrewed reflected w-beam up in Finland

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 19:26:42 UTC
From: Juha Kupiainen
Topic: 949 Message: 949

We put up a 5-band reflected w-beam on Tuesday. Working quite nicely.Only 8 meters above the ground.

Juha, OH4JK

.....
Maksuton sähköposti aina käytössä http://luukku.com
Kuukausimaksuton MTV3 Internet-liittymä www.mtv3.fi/liittyma

950. cw and hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 20:33:56 UTC
From: b3s7a00@aol.com
Topic: 950 Message: 950

Hi, I use CW, but my homebrew hex isnt up and running yet

[Non-text portions of this message have been removed]

951. Re: Meeting Frequencies and Times

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 21:45:46 UTC
From: w4wb
Topic: 942 Message: 951

--- In hex-beam@y..., RadioN1IX@a... wrote:
> Those are all SSB frequencies doesn't anyone use CW and a HexBeam besides
> myself?
>
> Dave N1IX

Hi Dave,

Of course some of use CW and PSK and RTTY and FM and SSTV and ... :-)

Would you like to set some times & frequencies. Doug has suggested some CW freqs such as 28.056.

Please let me know your thoughts.

Tnx es 73,
Barry - W4WB

952. Re: [hex-beam] Re: Meeting Frequencies and Times

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 22:36:06 UTC
From: RadioN1IX@aol.com
Topic: 942 Message: 952

56khz up from the bottom of the band sounds good to me. I have a HB5i at 40 feet and a FT-1000

28056
21056
14056

Dave N1IX

In a message dated 9/19/02 5:46:08 PM Eastern Daylight Time, w4wb@... writes:

<< --- In hex-beam@y..., RadioN1IX@a... wrote:
> Those are all SSB frequencies doesn't anyone use CW and a HexBeam besides
> myself?
>
> Dave N1IX

Hi Dave,

Of course some of use CW and PSK and RTTY and FM and SSTV and ... :-)

Would you like to set some times & frequencies. Doug has suggested some CW freqs such as 28.056.

Please let me know your thoughts.

Tnx es 73,
Barry - W4WB
>>

953. Re: cw and hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 23:05:09 UTC
From: w4wb
Topic: 950 Message: 953

--- In hex-beam@y..., b3s7a00@a... wrote:
> Hi, I use CW, but my homebrew hex isnt up and running yet
>
>

Hey, it is FB for anyone to join in the groups. We have often had non-Hex-Beam users join in, and a number now use the Hex-Beam. :-)

CUL,
Barry - W4WB

954. Modified Times and Frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-19 23:49:55 UTC
From: w4wb
Topic: 954 Message: 954

Please see the home page for the latest attempt at times amd frequencies. Note that CW was added in (###). All are .056 except for 17 m which is .086 (.056 would be out of band -- hi hi).

If you want to have a "master time and freq," let me know. While 10 m was working, we often met on 28.356 at 2230Z (UTC) with Shin and a number of others.

73,
Barry - W4WB

955. RE: [hex-beam] Modified Times and Frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-20 16:34:59 UTC
From: Jon Walsh
Topic: 954 Message: 955

Hello Barry:

I am an interloper on your hex-beam group as I am not an owner. However, I am in the process of evaluating the hex-beam as an option. Consequently, I've been tuning to 256 quite often, but haven't "connected" yet.

I think the idea of a master freq/time is a good idea. So many options spreads people out too thin with the result that it is more unlikely to get hooked up. I like the idea of starting on 10 and then moving to lower frequencies on a fairly rapid time frame, that makes sense to me.

But since I am not the proud owner of, etc., why the heck am I voting?????

73

Jon K7RF

-----Original Message-----
From: w4wb [mailto:w4wb@...]
Sent: Thursday, September 19, 2002 4:50 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Modified Times and Frequencies

Please see the home page for the latest attempt at times amd frequencies. Note that CW was added in (###). All are .056 except for 17 m which is .086 (.056 would be out of band -- hi hi).

If you want to have a "master time and freq," let me know. While 10 m was working, we often met on 28.356 at 2230Z (UTC) with Shin and a number of others.

73,
Barry - W4WB

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<http://us.adserver.yahoo.com/l?M=234081.2377872.3808768.2225242/D=egroupmail/S=:HM/A=1225247/rand=401523847>

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[Non-text portions of this message have been removed]

957. Re: P5/4L4FN Hex-Beam Now Up Again!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-20 22:19:15 UTC
From: tomac14
Topic: 931 Message: 957

Hi Peter:

The problem is the "." at the end of the URL. To get the URL to work, just remove the "period" at the end of each URL. I did that and it works fine.

73,

Tom, N0YD "Yankee Doodle"

--- In hex-beam@y..., Peter Allaert <peter.allaert@h...> wrote:
> Hello Barry, i can't seem to open the web-page. Anyone else having
> problems??
> 73
> Peter
>
> -----Oorspronkelijk bericht-----
> Van: w4wb [mailto:w4wb@a...]
> Verzonden: maandag 16 september 2002 09:17
> Aan: hex-beam@y...
> Onderwerp: [hex-beam] P5/4L4FN Hex-Beam Now Up Again!
>
>
> For the latest photos of Ed's (P5/4L4FN) new installation of the 10
> and 15 m Hex-Beam, see http://www.amsatnet.com/edhex.html.
> <http://www.amsatnet.com/edhex.html.> The
> vertical is the Butternut. Looks like this installation will stay
up!
>
> 73,
> Barry - W4WB
>
>
>
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>
<http://rd.yahoo.com/M=233351.2287381.3722242.2225242/D=egroupweb/S=17
050631
>
08:HM/A=1213956/R=0/*http://www.gotomypc.com/u/tr/yh/grp/300_Cquo1/g22
lp?Tar
> get=mm/g22lp.tmpl>
>

>
<http://us.adserver.yahoo.com/l?M=233351.2287381.3722242.2225242/D=egr
oupmai
> l/S=:HM/A=1213956/rand=227894938>
>
> To unsubscribe from this group, send an email to:
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>
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> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
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>
>
>
>
> [Non-text portions of this message have been removed]

958. Re: Modified Times and Frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-20 22:45:29 UTC
From: w4wb
Topic: 954 Message: 958

Hi Jon,

Everybody an "vote." We really need two times I think in order to
work EU and JA areas. Any suggestions welcome.

73,
Barry - W4Wb

--- In hex-beam@y..., Jon Walsh <jwalsh@b...> wrote:
> Hello Barry:
>
> I am an interloper on your hex-beam group as I am not an owner.
However, I
> am in the process of evaluating the hex-beam as an option.
Consequently,
> I've been tuning to 256 quite often, but haven't "connected" yet.
>
> I think the idea of a master freq/time is a good idea. So many
options
> spreads people out too thin with the result that it is more
unlikely to get
> hooked up. I like the idea of starting on 10 and then moving to
lower
> frequencies on a fairly rapid time frame, that makes sense to me.
>
> But since I am not the proud owner of, etc., why the heck am I
voting?????
>
> 73
>
> Jon K7RF
>
> -----Original Message-----
> From: w4wb [mailto:w4wb@a...]
> Sent: Thursday, September 19, 2002 4:50 PM
> To: hex-beam@y...
> Subject: [hex-beam] Modified Times and Frequencies
>
>
> Please see the home page for the latest attempt at times amd
> frequencies. Note that CW was added in (###). All are .056 except
> for 17 m which is .086 (.056 would be out of band -- hi hi).
>
> If you want to have a "master time and freq," let me know. While 10
m
> was working, we often met on 28.356 at 2230Z (UTC) with Shin and a

> number of others.
>
> 73,
> Barry - W4WB
>
>
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>
<http://rd.yahoo.com/M=234081.2377872.3808768.2225242/D=egroupweb/S=17
050631
>
08:HM/A=1225247/R=0/*http://ad.doubleclick.net/clk;4547223;7007303;y?
http://
> www.ameriquestmortgage.com/welcome.html?ad=Yahoo01>
>
> <http://us.adserver.yahoo.com/l?
M=234081.2377872.3808768.2225242/D=egroupmai
> l/S=:HM/A=1225247/rand=401523847>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@y...
>
>
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
>
>
> [Non-text portions of this message have been removed]

961. Spam Fighting

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-23 01:26:01 UTC
From: w4wb
Topic: 961 Message: 961

Folks,

I'm sorry that I have had to put the Group on a moderated status to fight spam.

All current members are in the UNmoderated status.

All NEW members will be held in the moderated status until they make a posting attempt. If it is clear that they are hams, then I will add them to the UNmoderated members.

This is the least painless way to foght the spammers.

73,
Barry - W4WB
Moderator

962. my HXL-1510

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-23 21:39:42 UTC
From: Peter
Topic: 962 Message: 962

Hello all,
Thought I should post the story-so-far with my HXL-1510, which is Traffie's leight-weight 21/28 MHz dual-band version of the Hexbeam.
Having moved QTH about a year ago, I started playing with indoor wire dipoles for the higher bands. Last winter I began looking for a more permanent setup. Living close to the North Sea, I became aware of the high winds at my QTH. So I needed something not too big, not too heavy. Searching on the Internet, I finally came across Mike Traffie's site (and this newsgroup). After making some considerations about size, costs, and the frequencies I wanted to have a decent antenna for, I decided to buy the HXL-1510, and try to extend it with wires for 12 and 6 metres.
Having ordered the antenna by telephone, it arrived a week later. Assemblage was very easy, taking little more than an hour. Now the antenna was in my garden a couple of meters above ground on a small mast. First attempts looked quite promising, it certainly didn't perform worse than my wire dipoles, which were much higher.
Then I started trying to extend the beam with wires for 6 and 12 meters. I didn't want to abuse the antenna too much, so I used the nut bolts for 10 and 15 to also hold the wires for 6 and 12. Adding 6 meters proved to be very easy. I noticed the lowest SWR frequency for 10 and 15 moving up a bit, but operating 95% SSB on HF, that was no problem. After some cutting, I found a good length with very low SWR on the lower part of the 6-meter band. Much encouraged by that, I started to attach wires for 12 meters on the beam. This proved to be a mission impossible. I couldn't get a low SWR on 12, and the frequency with lowest SWR on 15 and 10 shifted dramatically. After some tries, I gave up and decided to choose performance above band coverage.
Now it was time to wait for weather good enough to put the antenna on my roof. At last, May 27th, was the day. My brother Hans, PE4HB, was willing to do most of the "dirty work" and at the end of the afternoon it was time to attach the coax to the rig. First hearing was bewildering! Especially 15 meters was MUCH stronger than the wire dipole. Also 10 meters certainly wasn't doing worse, and the local beacon on six meters that I previously had heard just outof the noise, came screaming through the loudspeaker. You can't tell how satisfied I was.
Since then, I have been working a lot of dx-stations. Although the summer months haven't been the best for dx, my country score has improved from just over 240 to 270.
On 50MHz best DX was a PY on CW and TR8 on SSB; other new countries were A45, JX, CN, FP, 5B4 and ZC4. On 28Mhz I could add 9L, 9N, TN, YA, HK0, A71 and XU.
The best band sofar has been 21 MHz with new ones like TN, S21, 9L, YA, FR/T, CY9, 5W, 9Q, A71, ZD9, T8, HK0, XY, 9N, 3D2, VK9N, and XU. All worked with a barefoot FT-920 and the hexbeam.
The beam is also tuning on most other bands, but performance on 12, 40 and

80 is poor. 20 and 17 are fair. VK9LO (Lord Howe) was worked on 20 for a new one !
Have been working also a couple of other Hexbeam-users: the CY9DH-expedition and also Mike, N1HXA himself. Still looking for other contacts; always willing to try a sked, and I also will try to monitor the net-frequencies on 15 and 10 meters.
Last catch was P5/4L4FN on 15 meters RTTY, Friday last week. He is also using the HXL-1510 and came back on first call. What started as a 599-599 QSO, took a turn when I wrote him "also using hexbeam here". Ed turned the beam a bit, became even stronger and told me he was very happy with the hexbeam. After some chatting I let him carry on. It was great to have a longer contact with the world's most wanted.
You probably notice there's a happy dx-er here. The hexbeam is certainly the best HF-antenna I ever had.
73 to you all, Peter PB1TT.

963. Re: my HXL-1510

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-23 22:11:58 UTC
From: w4wb
Topic: 962 Message: 963

Great report Peter!

Hope to hear you on the air too.

73,
Barry - W4WB

964. Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-23 22:57:23 UTC
From: ab0si
Topic: 964 Message: 964

I hope you don't mind a basic question (or three):

1) How badly can an idiot (moi) screw-up the assembly? Their 'net site seems to indicatate that there is no tuning needed. Is that really true?

2) When the north winds blow and the ice on the hex-beam makes something go snap...
a) what is the warranty situation? Length? Coverage? etc.
b) How good/bad is service (timeframe for sending parts; cost of same)

If it makes a difference, I am looking at the 5-bander to be mounted on a 50-foot tower.

Many thanks & 73

Paul (AB0SI)

965. Re: Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-24 01:36:45 UTC
From: w4wb
Topic: 964 Message: 965

--- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> I hope you don't mind a basic question (or three):
>
> 1) How badly can an idiot (moi) screw-up the assembly? Their 'net
> site seems to indicatate that there is no tuning needed. Is that
> really true?

Yes Paul, the Hex-Beam is very easy to assembly and needs no tuning.

>
> 2) When the north winds blow and the ice on the hex-beam makes
> something go snap...
> a) what is the warranty situation? Length? Coverage? etc.
> b) How good/bad is service (timeframe for sending parts;
> cost of same)

It stands up well in really bad conditions. Chuck used it at the
Bouvet Is. operation (snow, ice, subzero temperatures, winds over 100
MPH, etc.) and worked FB. If your environment is worse than Bouvet,
then please let me know where you live and I'm staying clear of it!
hi hi

Look at the web site for the warranty or call Mike at 888.599.2316.

I believe everyone will agree that the service is excellent.

>
> If it makes a difference, I am looking at the 5-bander to be
mounted
> on a 50-foot tower.

I like it better at 40', but you will be very happy with it at 50'
too.
73,
Barry - W4WB

>
> Many thanks & 73
>
> Paul (AB0SI)

966. Re: Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-24 02:13:17 UTC
From: ab0si
Topic: 964 Message: 966

Barry

Many thanks for the quick and helpful response. May I ask why you like it better at 40 ft (compared to 50)? Something about radiation angles?

Paul AB0SI

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:

<serious snipping>

>If your environment is worse than Bouvet,
> then please let me know where you live and I'm staying clear of it!

Ok, it's not THAT bad in Minnesota. :)

> > If it makes a difference, I am looking at the 5-bander to be
> mounted
> > on a 50-foot tower.
>
>
> I like it better at 40', but you will be very happy with it at 50'
> too.
> 73,
> Barry - W4WB

967. Re: Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-24 11:51:52 UTC
From: w4wb
Topic: 964 Message: 967

--- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> Barry
>
> Many thanks for the quick and helpful response. May I ask why you
> like it better at 40 ft (compared to 50)? Something about radiation
> angles?
>
> Paul AB0SI
>

Hi Paul,

The Hex-Beam is optimized for about a height of 40'. On 20 m, you have a single elevation lobe. When mounted on a 50' tower, the antennais about 55' AGL. The lobe splits into two lobes. The lower lobes has a lower TOA, the upper lobe has a high TOA, and a deep null appears between them. At the last Field Day, I had a HX-5B on a 50' tower. Since the density of stations was very high and we were one of the "popular" stations to work (K 4 Big Fat Turkey), I could observed the behavior of the antenna. For example, I would be working 1's and 3's but almost no 2's. As the skip would change, stations work would change to 2's and VE's. Same effect to the north and west. Yep, the null showed up. I also note that most top DXers have a beam at 40' and use it for most contacts. They frequently have additional beams at say 65' and 90' to cover the range of TOAs. Further, the lobes of a Yagi behave about the same as the Hex-Beam.

Paul, there are many users on this Group that have their Hex-Beams at various heigths and conditions. They all work, but differently because of the installation. From what I know, we all really like our HBs. At some pint, I hope to mount mine on a 50' crank up tower that will be motorized so that I can adjust the TOA to some degree. Necessary? No, but it might be fun. :-)

If you mount a HB on a 50' tower, you still will be very pleased.

73,
Barry

968. Height off surface/ground?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-24 12:16:19 UTC
From: George Shaw
Topic: 964 Message: 968

I may have asked this before but what are the suggestions if I want to mount a multi-beam on a pole which is in itself at the top of a 14 floor high rise @ 180ft approx. What is the minimum height of the pole mount? What sort of effect will the roof surface have (I think it is concrete with reinforcing bars)?

Is it possible to have a Hex for 40/80m close to the multi-beam and if so how close can they be spaced?

George Shaw MI3GTO

Mobile: +44 (0) 7740 361 163
Email: george.shaw@...

969. Re: Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-24 14:43:28 UTC
From: ab0si
Topic: 964 Message: 969

Great information, Barry. Many thanks!

Paul

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> > Barry
> >
> > Many thanks for the quick and helpful response. May I ask why you
> > like it better at 40 ft (compared to 50)? Something about
radiation
> > angles?
> >
> > Paul AB0SI
> >
>
> Hi Paul,
>
> The Hex-Beam is optimized for about a height of 40'. On 20 m, you
> have a single elevation lobe. When mounted on a 50' tower, the
> antennais about 55' AGL. The lobe splits into two lobes. The
lower
> lobes has a lower TOA, the upper lobe has a high TOA, and a deep
null
> appears between them. At the last Field Day, I had a HX-5B on a
50'
> tower. Since the density of stations was very high and we were one
> of the "popular" stations to work (K 4 Big Fat Turkey), I could
> observed the behavior of the antenna. For example, I would be
> working 1's and 3's but almost no 2's. As the skip would change,
> stations work would change to 2's and VE's. Same effect to the
north
> and west. Yep, the null showed up. I also note that most top
DXers
> have a beam at 40' and use it for most contacts. They frequently
> have additional beams at say 65' and 90' to cover the range of
TOAs.
> Further, the lobes of a Yagi behave about the same as the Hex-Beam.
>
> Paul, there are many users on this Group that have their Hex-Beams
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> various heigths and conditions. They all work, but differently
> because of the installation. From what I know, we all really like
> our HBs. At some pint, I hope to mount mine on a 50' crank up
tower

> that will be motorized so that I can adjust the TOA to some
degree.
> Necessary? No, but it might be fun. :-)
>
> If you mount a HB on a 50' tower, you still will be very pleased.
>
> 73,
> Barry

970. Re: Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-25 20:56:16 UTC
From: dl7io
Topic: 964 Message: 970

This antenna is not designed or optimized for any height.
I'm sorry but it simply not true!
The antenna is designed to play with a good SWR and an acceptable gain and F/B ratio, like every antenna. If you are looking for the height you have to do it for every of the 5 useable bands. Conditions of TOA etc. will change between all those bands. Don't look on 20m only. By the way, 20m and 17m are the only real good bands for a 5 band version. There you have the best gain and best effect compared to your competitors. As higher the band as lower the gain and as harder the competition. On 10m/12m it is not much better than a dipole and you often will have to call more than twice... We are talking about the 5-band version! If you made the mathematics right your modelling will show you the same results. I made my beams for travelling and I never had the expectations like sometimes described in this forum. While comparing this antenna at various heights (CRANK UP TOWER!) to my yagis fixed at 30m I never got bigger DX signals from the Hex. And I have 3 times more coax on the yagis. So to let you know I'm not in the situation of small place or neighborhood with restrictions. I've 2 x 30m towers with 5 ele monobanders for 10/15/20 and 3 ele for 40m. Another 5 ele for 20m at 12m height etc. I'm using the Hex for the 2nd multistation.
Even compared to a 3 el. quad at 12 ft to a Hex at 40 ft, the Hex (original Traffie beam!) wasn't better.
Of course it was not better because it is a compromise 2 element beam! A 2 element yagi gives you more gain not talking about a quad...
So please everybody be so kind and don't tell us those tales about the Hex. There are some physics we can't change.
It is a great antenna for the place needed, the weight etc. but it is not a mystery.
regards Holger

--- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> Great information, Barry. Many thanks!
>
> Paul
>
> --- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> > --- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> > > Barry
> > >
> > > Many thanks for the quick and helpful response. May I ask why
you
> > > like it better at 40 ft (compared to 50)? Something about
> radiation
> > > angles?

> > >
> > > Paul AB0SI
> > >
> >
> > Hi Paul,
> >
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> > have a single elevation lobe. When mounted on a 50' tower, the
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> > lobes has a lower TOA, the upper lobe has a high TOA, and a deep
> null
> > appears between them. At the last Field Day, I had a HX-5B on a
> 50'
> > tower. Since the density of stations was very high and we were
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> > of the "popular" stations to work (K 4 Big Fat Turkey), I could
> > observed the behavior of the antenna. For example, I would be
> > working 1's and 3's but almost no 2's. As the skip would change,
> > stations work would change to 2's and VE's. Same effect to the
> north
> > and west. Yep, the null showed up. I also note that most top
> DXers
> > have a beam at 40' and use it for most contacts. They frequently
> > have additional beams at say 65' and 90' to cover the range of
> TOAs.
> > Further, the lobes of a Yagi behave about the same as the Hex-
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> >
> > Paul, there are many users on this Group that have their Hex-
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> at
> > various heigths and conditions. They all work, but differently
> > because of the installation. From what I know, we all really
like
> > our HBs. At some pint, I hope to mount mine on a 50' crank up
> tower
> > that will be motorized so that I can adjust the TOA to some
> degree.
> > Necessary? No, but it might be fun. :-)
> >
> > If you mount a HB on a 50' tower, you still will be very pleased.
> >
> > 73,
> > Barry

972. Re: Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 00:59:50 UTC
From: w4wb
Topic: 964 Message: 972

Holger,

What actual Hex-Beam from Traffie have you tested?

73,
Barry

973. Re: [hex-beam] Re: Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 08:14:42 UTC
From: Eric Carling
Topic: 964 Message: 973

"So please everybody be so kind and don't tell us those tales about the Hex. There are some physics we can't change".

I'm sorry but I read this and re-read this and thought long and hard and I just cannot understand the comment. Now that 12 & 10 have opened after the summer doldrums I am everyday amazed about the Hexbeam performance on those bands just as I was with 20/17/15 after I put it up in July. And mine is only 25ft up - and I'm in a valley.

Yesterday I worked barefoot Jim Smith VK9NS on 10m with 3rd call in huge pile-up. Why can't I tell that tale to the Hexbeam Reflector?

Eric G0CGL.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 25 September 2002 20:54:25
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Potential buyer question

This antenna is not designed or optimized for any height.
I'm sorry but it simply not true!
The antenna is designed to play with a good SWR and an acceptable gain and F/B ratio, like every antenna. If you are looking for the height you have to do it for every of the 5 useable bands. Conditions of TOA etc. will change between all those bands. Don't look on 20m only. By the way, 20m and 17m are the only real good bands for a 5 band version. There you have the best gain and best effect compared to your competitors. As higher the band as lower the gain and as harder the competition. On 10m/12m it is not much better than a dipole and you often will have to call more than twice... We are talking about the 5-band version! If you made the mathematics right your modelling will show you the same results. I made my beams for travelling and I never had the expectations like sometimes described in this forum. While comparing this antenna at various heights (CRANK UP TOWER!) to my yagis fixed at 30m I never got bigger DX signals from the Hex. And I have 3 times more coax on the yagis. So to let you know I'm not in the situation of small place or neighborhood with restrictions. I've 2 x 30m towers with 5 ele monobanders for 10/15/20 and 3 ele for 40m. Another 5 ele for 20m at 12m height etc. I'm using the Hex for the 2nd multistation.
Even compared to a 3 el. quad at 12 ft to a Hex at 40 ft, the Hex (original Traffie beam!) wasn't better.
Of course it was not better because it is a compromise 2 element beam! A 2 element yagi gives you more gain not talking about a quad...

So please everybody be so kind and don't tell us those tales about
the Hex. There are some physics we can't change.
It is a great antenna for the place needed, the weight etc. but it is
not a mystery.
regards Holger

--- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> Great information, Barry. Many thanks!
>
> Paul
>
> --- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> > --- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> > > Barry
> > >
> > > Many thanks for the quick and helpful response. May I ask why
you
> > > like it better at 40 ft (compared to 50)? Something about
> radiation
> > > angles?
> > >
> > > Paul AB0SI
> > >
> >
> > Hi Paul,
> >
> > The Hex-Beam is optimized for about a height of 40'. On 20 m,
you
> > have a single elevation lobe. When mounted on a 50' tower, the
> > antennais about 55' AGL. The lobe splits into two lobes. The
> lower
> > lobes has a lower TOA, the upper lobe has a high TOA, and a deep
> null
> > appears between them. At the last Field Day, I had a HX-5B on a
> 50'
> > tower. Since the density of stations was very high and we were
one
> > of the "popular" stations to work (K 4 Big Fat Turkey), I could
> > observed the behavior of the antenna. For example, I would be
> > working 1's and 3's but almost no 2's. As the skip would change,
> > stations work would change to 2's and VE's. Same effect to the
> north
> > and west. Yep, the null showed up. I also note that most top
> DXers
> > have a beam at 40' and use it for most contacts. They frequently
> > have additional beams at say 65' and 90' to cover the range of
> TOAs.
> > Further, the lobes of a Yagi behave about the same as the Hex-
Beam.
> >

> > Paul, there are many users on this Group that have their Hex-
Beams
> at
> > various heigths and conditions. They all work, but differently
> > because of the installation. From what I know, we all really
like
> > our HBs. At some pint, I hope to mount mine on a 50' crank up
> tower
> > that will be motorized so that I can adjust the TOA to some
> degree.
> > Necessary? No, but it might be fun. :-)
> >
> > If you mount a HB on a 50' tower, you still will be very pleased.
> >
> > 73,
> > Barry

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hex-beam-unsubscribe@yahoogroups.com

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.

[Non-text portions of this message have been removed]

974. Re: Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 09:38:16 UTC
From: w4wb
Topic: 964 Message: 974

Right-on Eric. Perhaps Holger has a magic dipole for it to be as good as a Hex-Beam. I'm sorry to disagree with Holger, but the 10 and 12 m bands on my Hex-Beam perform quite well and a comparision to any dipole I have ever had having equivant performance, is simply silly. Yesterday I worked the C9 DXpedition on 12 m in a huge pileup. Got Babs on the 2nd call. Heading for her was about due East from here. I had the beam pointing NW when I saw the spot and could not hear anything except the pile. When I turned the HB in the proper direction, she became a solid 55 to 56. Nice! Not bad for something that is "nothing more than a dipole" now is it?

And I might point out that Ed (P5/4L4FN) is using the 10 & 15 m Hex-Beam that a group of us sent him. Ed has been on 10 m recently. Before, he was using the Butternut vertical. Check the comments on the spots listed on DX Summit about how much stronger his signal is now. He is reporting comparitive signals to the vertical of 2 S-units or so better. He is also enjoying the nice null the Hex-Beam puts the JAs into when he is trying to work NA or the F/B it has when trying to work EU stations (F/S also helps to attenuate NA stations). Not bad for something that is "nothing more than a dipole" now is it? Opps, I already said that didn't I? ;-)

Please tell your operating stories and experiences in addition to the technical issues.

73,
Barry - W4WB

--- In hex-beam@y..., "Eric Carling" <g0cg1@u...> wrote:
> "So please everybody be so kind and don't tell us those tales about
> the Hex. There are some physics we can't change".
>
> I'm sorry but I read this and re-read this and thought long and hard and I just cannot understand the comment. Now that 12 & 10 have opened after the summer doldrums I am everyday amazed about the Hexbeam performance on those bands just as I was with 20/17/15 after I put it up in July. And mine is only 25ft up - and I'm in a valley.
>
> Yesterday I worked barefoot Jim Smith VK9NS on 10m with 3rd call in huge pile-up. Why can't I tell that tale to the Hexbeam Reflector?
>
> Eric G0CGL.
>

975. Re: Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 10:53:03 UTC
From: dl7io
Topic: 964 Message: 975

Barry,
since 2000 I'm experimenting with the design of the reflected W. It came from the Moxon beam and went via the reflected M to the hexagonal shape or reflected W. One can find first describtions of the hexagonal size from British HAM's back about 20 years or so. In April or May 2001 I had my first 5 band version playing well. So far I build 3 of them. In March 2002 I made the first multiband beam with coax feeding between the elements. In May'02 I got the Traffie HX5B from passed Fritz (DL7VRO) for testing. Here was interesting for me to compare it with my own beams. And we have another HX5B from Traffie at DL7UCX together with the announced quad. He build this quad himself because he was not satisfied with the performance (gain! not F/B) of the Hex especially on 10/12m. And I can confirm this with my simulation results. Because he has no tower for the Quad yet he has it at about 4-5m. His Hex is now at about 14/15m. And it is not performing better.

Again it is a very good antenna for it's size etc. But it is only a 2 element beam and for radiating it is a compromise not the optimum.

There is a very nice effect resulting from the very close installation of the elements. The elements are coupling over the magnetic field. This make it very quiet compared to a noisy yagi or vertical and one can hear more signals especially in city limits. But please this has nothing to do with gain. It is the same effect like known from magnetic loops.

I like this kind of antenna very much! And I use it for DXpeditioning because for me it the best decision concerning gain, weight, size etc. I'm sure I spent more time and money on this antenna than most of the members of this forum. If you ask my wife she will tell you that I'm married with my reflected W beams. ;-)

But I don't like the stories about wonder antenna, better than 6 element yagis etc. If somebody has to decide what antenna to buy, he should know that we are talking about a 2 element beam. Otherwise he will expect something playing like 5-6 elements and will surely not be satisfied.
Holger

> Holger,
>
> What actual Hex-Beam from Traffie have you tested?
>
> 73,
> Barry

976. Re. Re

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 11:54:29 UTC
From: dl7io
Topic: 976 Message: 976

@Eric
congrats to your good result. I made my first 200+ DXCC's with a W3DZZ and 50w. The antenna was about 7-8m high in the backyards and the surrounding buildings were about 25m high. Stories like I worked someone somewhere in the x. call are not use- or helpful in this discussion. Let us say you are an experience DXer Eric and you know how and when to call. Otherwise tell me any reason why a folded 2 element should be better than another 2 or more element beams!
A single band reflected W or Hex has about possible 6.5 dBi gain, a dipole has some 2.2 dBi (free space no losses).
In a multiband version (let's say 5 bands) you get about 6 dBi for 20m and 17m but as higher the frequency and as closer the wire elements come together as less you will have. At 10/12m you will have about 4 dBi. Now you can choose in your design one band of the 2 with more gain, let us say about 4.5-5 dBi maximum but than the other band has only about 2.5-3 dBi. I spent most of my time optimizing 10/12m in the multiband version. The influence between the wires is very strong. They are to close and if you cut just 1cm from one element you can also lose the other band. Of course you have F/B or F/S ratio but you have not much gain. So check your installation and look also for other reason why the other antenna is so bad...

@Barry
Please don't bring the 10/15m version in this discussion. This is an absolute other antenna. I'm sure you will have 6 dBi on both bands. There is enough distance between 10m and 15m. And on the other hand, be careful while comparing with his Butternut. What is the efficeny of his Butternut and how looks the direct environment on the roof? How many radial he has?
You really played me the ball, Barry. At my Berlin flat I do have a Butternut on my roof to. It comes with 60 radials of 10-40m length. I have an A4S cushcraft beam at about 7m over the roof and another 7 m tower with...
The house is 11 floors high. The roof is about 144m x 12m. The only directions where the beams are performing better is looking to the smaller side. While they are looking to the longer side the Butternut is the better antenna. And for receiving the reflected W is the best but this is because of the otherwise S5-9 noise on the bands.

While travelling around I always have a Butternut and a reflected W with me. And I also have about 2 S-units difference over the Butternut with the beam at about 8m. But than I only have 10-15 radials mostly about 10m. So the efficency of the vertical is bad and often people have the same conditions at their home installation.

Again for all of you. I love this antenna. And while sitting with HAM friends at the club or somewhere I always come to this theme. Meanwhile many of my friends also want an antenna like this. Not because they read or heard from someone but because I infected them.

regards Holger

977. Re: [hex-beam] Re. Re

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 13:59:13 UTC
From: Eric Carling
Topic: 976 Message: 977

"Stories like I worked someone somewhere in the x. call are not use- or helpful in this
discussion".

Simply not true as evidenced by emails I receive from prospective purchasers who have found comments from all those who have expounded the virtues of the Hexbeam on here as an enticement to getting one themselves.

Further, isn't it good to just revel in the enjoyment of using such a well performing antenna and to share that with others?

From your eHam scoring of the Hexbeam 16th May 2001, I see you are consistently biased against the antenna.

Less insolence and more charity please Holger.

Eric.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 26 September 2002 11:53:33
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re. Re

@Eric
congrats to your good result. I made my first 200+ DXCC's with a W3DZZ and 50w. The antenna was about 7-8m high in the backyards and the surrounding buildings were about 25m high. Stories like I worked someone somewhere in the x. call are not use- or helpful in this discussion. Let us say you are an experience DXer Eric and you know how and when to call. Otherwise tell me any reason why a folded 2 element should be better than another 2 or more element beams!
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@Barry
Please don't bring the 10/15m version in this discussion. This is an absolute other antenna. I'm sure you will have 6 dBi on both bands. There is enough distance between 10m and 15m. And on the other hand, be careful while comparing with his Butternut. What is the efficeny of his Butternut and how looks the direct environment on the roof? How many radial he has?
You really played me the ball, Barry. At my Berlin flat I do have a Butternut on my roof to. It comes with 60 radials of 10-40m length. I have an A4S cushcraft beam at about 7m over the roof and another 7 m tower with...
The house is 11 floors high. The roof is about 144m x 12m. The only directions where the beams are performing better is looking to the smaller side. While they are looking to the longer side the Butternut is the better antenna. And for receiving the reflected W is the best but this is because of the otherwise S5-9 noise on the bands.

While travelling around I always have a Butternut and a reflected W with me. And I also have about 2 S-units difference over the Butternut with the beam at about 8m. But than I only have 10-15 radials mostly about 10m. So the efficency of the vertical is bad and often people have the same conditions at their home installation.

Again for all of you. I love this antenna. And while sitting with HAM friends at the club or somewhere I always come to this theme. Meanwhile many of my friends also want an antenna like this. Not because they read or heard from someone but because I infected them.

regards Holger

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.

[Non-text portions of this message have been removed]

978. Wonder Antenna?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 14:21:03 UTC
From: w4wb
Topic: 964 Message: 978

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
<snip>

> But I don't like the stories about wonder antenna, better than 6
> element yagis etc. If somebody has to decide what antenna to buy,
he should know that we are talking about a 2 element beam. Otherwise
he will expect something playing like 5-6 elements and will surely
not be satisfied.
> Holger
>
Hello Holger,

Do you really think anyone reading this list doesn't know the Hex-
Beam is a two-element wire beam? I should think this is hardly a
problem.

Who is calling the Hex-Beam a "wonder antenna" and saying it is
better than a big Yagi? If one has a 5-6 element Yagi and compares
it to the HB, then this Yagi will win under like conditions IF the
Yagi is properly tuned and maintained. I know one fellow that just
wasn't getting the performance from his big Yagi that he figured he
used to get. When he took it down, it had broken parts and needed
serious maintainance. His losses were BIG. Worked FB again once
repaired.

The purpose of this list is to have a forum to present and discuss
ideas and experiences about this antenna. Perhaps you may not like
others opinions or observations, but that's life. All members are
welcome to offer or ask what they desire.

You have mentioned your modelling of the Hex-Beam. Would you like to
share your model data file with the group so others can run it too?

Tnx es 73,
Barry - W4WB

979. Re: [hex-beam] Re: Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 14:40:54 UTC
From: RadioN1IX@aol.com
Topic: 964 Message: 979

If Ed is using a Hex-Beam and so am I, how come he doesn't hear me?

Dave N1IX

In a message dated Thu, 26 Sep 2002 4:38:16 AM Eastern Standard Time, "w4wb" <w4wb@...> writes:

>
>And I might point out that Ed (P5/4L4FN) is using the 10 & 15 m Hex-
>Beam that a group of us sent him. ?Ed has been on 10 m recently. ?
>Before, he was using the Butternut vertical. Check the comments on
>the spots listed on DX Summit about how much stronger his signal is
>now. ?He is reporting comparitive signals to the vertical of 2 S-
>units or so better. ?He is also enjoying the nice null the Hex-Beam
>puts the JAs into when he is trying to work NA or the F/B it has when
>trying to work EU stations (F/S also helps to attenuate NA
>stations). ?Not bad for something that is "nothing more than a
>dipole" now is it? ?Opps, I already said that didn't I? ?;-)
>
>Please tell your operating stories and experiences in addition to the
>technical issues.
>
>73,
>Barry - W4WB
>
>
>--- In hex-beam@y..., "Eric Carling" <g0cg1@u...> wrote:
>> "So please everybody be so kind and don't tell us those tales about
>> the Hex. There are some physics we can't change".
>>
>> I'm sorry but I read this and re-read this and thought long and
>hard and I just cannot understand the comment. Now that 12 & 10 have
>opened after the summer doldrums I am everyday amazed about the
>Hexbeam performance on those bands just as I was with 20/17/15 after
>I put it up in July. And mine is only 25ft up - and I'm in a valley.
>>
>> Yesterday I worked barefoot Jim Smith VK9NS on 10m with 3rd call in
>huge pile-up. Why can't I tell that tale to the Hexbeam Reflector?
>>
>> Eric G0CGL.
>>
>
>
>
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>

980. My two cents!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 15:05:17 UTC
From: Meiselman
Topic: 980 Message: 980

Hello to all:

Hey...it works for me! Three days ago I had a short but very clear QSO with Ed (P5/4L4FN) and it was HB to HB. He was 1,000% pleased with his antenna and said all kinds of nice things about it. He was 59 in Los Angeles and I was 56+10 with him...not bad for poor old me with the antenna 8 feet above the roof and only an Ameritron 811H amp.

Perhaps we need to be sure to compare apples to apples during these exchanges. Maybe (?) if I owned 40 square miles of property near Los Angeles or the nearby mountains I could have an antenna "farm" with lots of towers, etc. But I don't! Having tried a Gap vertical and a TGM hybrid mini-beam, the HB wins out.

73 (and coolness) to all,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

981. Being Heard

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 16:15:16 UTC
From: w4wb
Topic: 964 Message: 981

--- In hex-beam@y..., RadioN1IX@a... wrote:
> If Ed is using a Hex-Beam and so am I, how come he doesn't hear me?
>
> Dave N1IX
>

Good question Dave. I don't know what you are running, but Ed is running a KW now with the ICOM 706. If you are barefoot, you may need to factor that into the equation as well.

GL es 73,
Barry - W4WB

982. [hex-beam] My two cents!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 17:06:24 UTC
From: Herbert Meiselman
Topic: 980 Message: 982

OK...SO I CAN'T TYPE!

IN THE MESSAGE BELOW, I MEANT THAT MY REPORT FROM HIM WAS 59+10 (NOT 56+10).

HERB K6HJM

Hello to all:

Hey...it works for me! Three days ago I had a short but very clear QSO with Ed (P5/4L4FN) and it was HB to HB. He was 1,000% pleased with his antenna and said all kinds of nice things about it. He was 59 in Los Angeles and I was 56+10 with him...not bad for poor old me with the antenna 8 feet above the roof and only an Ameritron 811H amp.

Perhaps we need to be sure to compare apples to apples during these exchanges. Maybe (?) if I owned 40 square miles of property near Los Angeles or the nearby mountains I could have an antenna "farm" with lots of towers, etc. But I don't! Having tried a Gap vertical and a TGM hybrid mini-beam, the HB wins out.

73 (and coolness) to all,

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meiselma@...

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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine

1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

983. Re: [hex-beam] Re: Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 17:11:29 UTC
From: Gordon
Topic: 964 Message: 983

Hi Barry et al

Re HB Performance:

I don't know about all the "Technical" talk indicating that the Hex is little more or less than a Diople.

I was just singning with a UK station, when Chris G3NAE called in to report that my Barefoot signal, was outstanding 5&9+ & flattening everything on the band!!!
Imagine my surprise, I have never had such a report before, even with a multi element trapped Yagi at 50ft. My Hex-Beam #147 is only at 27ft.

Chris was using his 20mtr. Quad mounted on his Vehicle. I recently visited with Chris and saw his Quad, which he can mount on the vehicle in 10 minutes.It is a sight to behold.

Happy Hunting to all "Hex-Beamers", they are the answer for those who are not blessed with forty acres or so. Those Big Gun Stations will always win, but we can at least join in the fun as well.

72/3 de Gordon VA7XG
va7xg@...

----- Original Message -----
From: RadioN1IX@...
To: hex-beam@yahoogroups.com
Sent: Thursday, September 26, 2002 7:40 AM
Subject: Re: [hex-beam] Re: Potential buyer question

If Ed is using a Hex-Beam and so am I, how come he doesn't hear me?

Dave N1IX

In a message dated Thu, 26 Sep 2002 4:38:16 AM Eastern Standard Time, "w4wb" <w4wb@...> writes:

>
>And I might point out that Ed (P5/4L4FN) is using the 10 & 15 m Hex-
>Beam that a group of us sent him. Ed has been on 10 m recently.
>Before, he was using the Butternut vertical. Check the comments on
>the spots listed on DX Summit about how much stronger his signal is
>now. He is reporting comparitive signals to the vertical of 2 S-
>units or so better. He is also enjoying the nice null the Hex-Beam
>puts the JAs into when he is trying to work NA or the F/B it has when
>trying to work EU stations (F/S also helps to attenuate NA
>stations). Not bad for something that is "nothing more than a
>dipole" now is it? Opps, I already said that didn't I? ;-)
>
>Please tell your operating stories and experiences in addition to the

>technical issues.
>
>73,
>Barry - W4WB
>
>
>--- In hex-beam@y..., "Eric Carling" <g0cg1@u...> wrote:
>> "So please everybody be so kind and don't tell us those tales about
>> the Hex. There are some physics we can't change".
>>
>> I'm sorry but I read this and re-read this and thought long and
>hard and I just cannot understand the comment. Now that 12 & 10 have
>opened after the summer doldrums I am everyday amazed about the
>Hexbeam performance on those bands just as I was with 20/17/15 after
>I put it up in July. And mine is only 25ft up - and I'm in a valley.
>>
>> Yesterday I worked barefoot Jim Smith VK9NS on 10m with 3rd call in
>huge pile-up. Why can't I tell that tale to the Hexbeam Reflector?
>>
>> Eric G0CGL.
>>
>
>
>
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[Non-text portions of this message have been removed]

984. Fun with the HB

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 17:15:44 UTC
From: w4wb
Topic: 964 Message: 984

Hi Gordon,

Nice report. I have seen photos of Chris' portable station. Most impressive! Also worked him before and he had a FB signal here that day.

73,
Barry - W4WB

--- In hex-beam@y..., Gordon <va7xg@r...> wrote:
> Hi Barry et al
>
> Re HB Performance:
>
> I don't know about all the "Technical" talk indicating that the Hex is little more or less than a Diople.
>
> I was just singning with a UK station, when Chris G3NAE called in to report that my Barefoot signal, was outstanding 5&9+ & flattening everything on the band!!!
> Imagine my surprise, I have never had such a report before, even with a multi element trapped Yagi at 50ft. My Hex-Beam #147 is only at 27ft.
>
> Chris was using his 20mtr. Quad mounted on his Vehicle. I recently visited with Chris and saw his Quad, which he can mount on the vehicle in 10 minutes.It is a sight to behold.
>
> Happy Hunting to all "Hex-Beamers", they are the answer for those who are not blessed with forty acres or so. Those Big Gun Stations will always win, but we can at least join in the fun as well.
>
> 72/3 de Gordon VA7XG
> va7xg@r...
>

985. Re: Re. Re

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-26 21:59:58 UTC
From: dl7io
Topic: 976 Message: 985

> From your eHam scoring of the Hexbeam 16th May 2001, I see you are
> consistently biased against the antenna.
>
> Less insolence and more charity please Holger.
>
> Eric.

@Eric,
if you like to wash dirty clothes than do it at home please. But if
you have no idea what you are talking about you better would be
silent.
80% of my posting at eHam are deleted or censored. And I'm sure you
don't know what was written there and why I gave it such a score.
Please think twice before you insult somebody. This is not necessary.

I can offer you a technical discussion but I don't like the way we
are going in the moment and will not continue.
Holger

986. Re: [hex-beam] Digest Number 199

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-27 06:34:51 UTC
From: Vladimir Ljubojevic & Jelena Calic-Ljubo
Topic: 986 Message: 986

Thank you Holger for sharing the solid facts about the physics of the hex-beam.

I am considering to build a hex myself (or some simmilar antenna).
It is good to learn some facts you wrote about it - the real gain on the upper bands, the difficulty with the tuning, the reasons for low noise reception, performance at low heights, etc.

So far, the worst I learned about homebrewing this antenna is the difficulty with the tuning.

I also like to hear the success stories with the hex, and hope I will have mine to tell also.

73 to all
Fric, YU1WC

At 16:59 26.9.02 +0000, you wrote:
>So please everybody be so kind and don't tell us those tales about
>the Hex. There are some physics we can't change.
>It is a great antenna for the place needed, the weight etc. but it is
>not a mystery.

987. Re: Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-27 15:48:36 UTC
From: ab0si
Topic: 964 Message: 987

Barry:

Since I am the culprit whos tarted this thread, pleae allow me to
reenter (gently and on tiptoes <grin>)

I haven't seen any replies that looked like "wonder antenna"
nonesense. I haven't seen any replies that said a hexbeam was better
than a 6-element yagi.

I assumed when I asked the question -- and I think the responders
assumed likewise -- that we were talking about the hexbeam compared
to otehr small, compromise antennas. If I had the room to put up
stacked arrays of full size x-element mono-band yagis, I won't be
considering a hex-beam. <grin>

Paul ab0si

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
> Barry,
> since 2000 I'm experimenting with the design of the reflected W. It
> came from the Moxon beam and went via the reflected M to the
> hexagonal shape or reflected W. One can find first describtions of
> the hexagonal size from British HAM's back about 20 years or so. In
> April or May 2001 I had my first 5 band version playing well. So
far
> I build 3 of them. In March 2002 I made the first multiband beam
with
> coax feeding between the elements. In May'02 I got the Traffie HX5B
> from passed Fritz (DL7VRO) for testing. Here was interesting for me
> to compare it with my own beams. And we have another HX5B from
> Traffie at DL7UCX together with the announced quad. He build this
> quad himself because he was not satisfied with the performance
(gain!
> not F/B) of the Hex especially on 10/12m. And I can confirm this
with
> my simulation results. Because he has no tower for the Quad yet he
> has it at about 4-5m. His Hex is now at about 14/15m. And it is not
> performing better.
>
> Again it is a very good antenna for it's size etc. But it is only a
2
> element beam and for radiating it is a compromise not the optimum.
>
> There is a very nice effect resulting from the very close
> installation of the elements. The elements are coupling over the
> magnetic field. This make it very quiet compared to a noisy yagi or

> vertical and one can hear more signals especially in city limits.
But
> please this has nothing to do with gain. It is the same effect like
> known from magnetic loops.
>
> I like this kind of antenna very much! And I use it for
DXpeditioning
> because for me it the best decision concerning gain, weight, size
> etc. I'm sure I spent more time and money on this antenna than most
> of the members of this forum. If you ask my wife she will tell you
> that I'm married with my reflected W beams. ;-)
>
> But I don't like the stories about wonder antenna, better than 6
> element yagis etc. If somebody has to decide what antenna to buy,
he
> should know that we are talking about a 2 element beam. Otherwise
he
> will expect something playing like 5-6 elements and will surely not
> be satisfied.
> Holger
>
>
> > Holger,
> >
> > What actual Hex-Beam from Traffie have you tested?
> >
> > 73,
> > Barry

988. Re: Wonder Antenna?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-27 19:02:49 UTC
From: dl7io
Topic: 964 Message: 988

Hello again,
I hope we can come to a final with this discussion. But while you are asking for the details... the last posting at eHam.net in Product Reviews concerning the Hexbeam was comparing a 6 element monoband yagi for 10m (at about 20m if I remember correctly) with a Hex (I guess also 15/10m version) at 9m. And the Hex performed like his yagi for DX. And again this Hex will have some 6dBi gain maximum. That means if the Hex is like his yagi this is not because the Hex is so good. He should check his yagi because there will be something wrong with it! And this was one part of my message. One can find a few more stories sounding like this here and somewhere else. I'm sure Paul and other potential buyers are reading most of the content in the message directory here and postings from other sources like eHam.net etc.

If the impression is that the Hexbeam performs much better than what he had before and the difference to the other antenna is bigger as we can expect from a 2 element then we have 2 conclusions:

1. The Hex is a well designed antenna. So in case of a commercial one Mr. Traffie made a good job!

2. The antenna used before needs to be checked for the installation conditions and/or design. Or in other words the old antenna is bad performing.

But you never will find the second conclusion written in the postings! If a potential buyer reads postings with comparisons like this without the conclusion: "my old antenna is bad performing" he can get the impression of a wonder antenna.

I'm sorry for confusion or misunderstandings because of my poor English. In fact I love this antenna and I spend most of my time for it.

My last comment on that: I would highly recommend this beam to potential buyers with limited space, sensitive surrounding or DXpeditioners. But it is a 2 element beam and 6dBi is the maximum gain you can get!

Holger

PS.@Barry, will send some files shortly. What program are you using? I will be happy if someone else will have a look on it. It is difficult to model multiband versions and I'm always afraid of mistakes in the model.

989. Wonder Antenna?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-27 20:14:50 UTC
From: Eric Carling
Topic: 964 Message: 989

I heard Barry W4WB in the massive pile-up for ST0F this evening and he was easily the loudest North American calling, in fact the loudest period. Guess you made the QSO Barry.

Since William runs only 30 watts from Khartoum, I tried with 30 watts too - it took quite a few calls and about 15 minutes but I got 5/8. Not bad I think.

Eric G0CGL.

[Non-text portions of this message have been removed]

990. Re: Potential buyer question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-27 22:54:40 UTC
From: w4wb
Topic: 964 Message: 990

Hi Paul,

I think Holger has addressed the "wonder antenna" in a following email. Actually, if I had the space for stacks of say 6/6 or even 4/4, I would still have a Hex-Beam as part of the antenna mix. :-)

FWIW, I know several fellows that have/had the C3SS and have switched to the Hex-Beam and contend the HB performs better. One fellow on EA8 had his C3SS swinging over into his neighbors yard and that was causing a problem he said. Some months later I worked him again and he had the HB and was very happy (and so was his neighbor I gathered). I simply note that both times we had a QSO, he had a great booming signal. There seems to be a pipeline to EA8 from my QTH. Often have rx 59 rpts running QRP with the Titan vertical. Sure wish I could move this "pipeline" at times! hi hi

CUL,
Barry - W4WB

--- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> Barry:
>
> Since I am the culprit whos tarted this thread, pleae allow me to
> reenter (gently and on tiptoes <grin>)
>
> I haven't seen any replies that looked like "wonder antenna"
> nonesense. I haven't seen any replies that said a hexbeam was
better
> than a 6-element yagi.
>
> I assumed when I asked the question -- and I think the responders
> assumed likewise -- that we were talking about the hexbeam compared
> to otehr small, compromise antennas. If I had the room to put up
> stacked arrays of full size x-element mono-band yagis, I won't be
> considering a hex-beam. <grin>
>
> Paul ab0si
>

991. Hex-Beam Models

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-28 02:22:05 UTC
From: w4wb
Topic: 964 Message: 991

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
<snip>
> Holger
>
> PS.@Barry, will send some files shortly. What program are you using?
> I will be happy if someone else will have a look on it. It is
> difficult to model multiband versions and I'm always afraid of
> mistakes in the model.

Hi Holger,

Thanks for the offer to share your models. I have both EZNEC v. 3.0
and NEC-WIN Plus+ (and Synth).

73,
Barry - W4WB

992. Re: ST0F

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-28 02:31:40 UTC
From: w4wb
Topic: 964 Message: 992

--- In hex-beam@y..., "Eric Carling" <g0cg1@u...> wrote:
>
> I heard Barry W4WB in the massive pile-up for ST0F this evening and he was easily the loudest North American calling, in fact the loudest period. Guess you made the QSO Barry.
>
> Since William runs only 30 watts from Khartoum, I tried with 30 watts too - it took quite a few calls and about 15 minutes but I got 5/8. Not bad I think.
>
> Eric G0CGL.
>
Hi Eric,

Sadly, I didn't make the contact today with William. He was only 42 to 52 here running his 30 W. That put me roughly at S-4 to S-5 there. He was hearing many EU and G stations at 57 to 59+ so I was underneath you guys. The only time we in NA appear to have a chance is when he lsn for NA stations only. Maybe tomorrow. :-) He will be there a while and is getting a KW station and a tri-band beam I understand. [I did get at least an EX on the first call with a 58 rpt for a third band.]

Congratulations on your contact. Also, thanks for the nice signal report. Good demonstration of the power of propagation. hi hi

73,
Barry - W4WB

993. homebrew hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-09-27 19:06:42 UTC
From: reidserv
Topic: 993 Message: 993

Been looking at the hexbeam since I saw EI7BA John Tait's post on the Internet. So, I tried a 17m version myself, last night. I used six skinny lengths of 8-ft bamboo mounted to a 2-ft circle of 5/8ths plywood, strung it with #22 enameled wire, and fed it with RG58 coax. I used the formulas that John e-mailed to me, complete with end-of-element spacings. Stuck it up about 24-ft; didn't bother with pruning, just tuned the tuner for low SWR. Pointed it slightly N of East from my QTH in Boise Idaho, and answered a phone CQ by K0SRI with 100W from my IC-730 at 0238 UTC. She said I was "coming in like 'Gang Busters', 10-over-9" to Minnesota and to "keep it up". (BTW, my first YL contact - X or otherwise - since becoming a Novice in 1969, and my first ever on SSB. Thanks Maryann!) Coulda been good band conditions, and I've never used a beam before; but it sure seems amazing that something this small acts the way it does. GO, Hexbeamers!

Gene AC7UL

994. logging program

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-01 10:24:45 UTC
From: on4ccw
Topic: 994 Message: 994

Hi all, i'm looking for a good logging program which point out the location on a map of the prefix (as i don't know many for the moment...)if possible for free???!!!
Tnx for responses
Peter

995. Re: logging program

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-01 10:54:43 UTC
From: w4wb
Topic: 994 Message: 995

--- In hex-beam@y..., "on4ccw" <peter.allaert@h...> wrote:
> Hi all, i'm looking for a good logging program which point out the
> location on a map of the prefix (as i don't know many for the
> moment...)if possible for free???!!!
> Tnx for responses
> Peter

Try DX4WIN, LOGIC, or LOG WINDOWS. They all have this feature, but
you must pay a small fee for them. This is a real business for each
of these companies and it is good to support them I suggest.

73,
Barry - W4WB

996. tool for getting a model

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-01 13:23:30 UTC
From: dl7io
Topic: 996 Message: 996

Hello all,
I have uploaded an excel file which is in my opinion more helpful than model files. The model for a multiband array is very complex and has more than 50 wires. So without this tool it is almost impossible to change anything and to know what you have done.

This excel file is calculating the X / Y / Z data for the model. No matter what program you will use. You can change the wire length (length per leg --> 2 legs per radiator or reflector element), the isolator distance and the distance from the center hub. All data are in centimeter (cm) but you can change it to feed.
Sheet 1 is for a single band version only.
Sheet 3 is for a multiband array.
Please do not use Sheet 2. There are some mistakes in the formulas. This was made for modelling a beam with one common feeding point for all elements. But I was not able to get useful results and did not continue this project. That's why I never corrected the mistakes.

The only thing you have to do by yourself is the feeding system. And here is the point where in my opinion most of the mistakes are possible. I don't trust my own feeding system model. So I decided to give you the excel file first and may be we can compare the part with the feeding of the model. While you are going to simulate the beam with the low impedance line take the wire lengths out of my .ppt file. The actual values in the file where used for a model with coax cable feeding between the radiators and from the bottom (mounting plate).

The best results are with a NEC4 machine. Programs based on Nec2 like EZNEC3.0 or Nec4Win have problems with closed wire elements and you have to check the results carefuly.

@Peter - logbook program
I'm using UCXLog. It is freeware and has grey line and rectangular maps with the path and beam headings to the other station. It does not need any installation setup and will not write dozens of .dll's on your harddisc or write in your registry. But it makes CW, you can run SSB via soundcard if you like, DX-Cluster via Packet, Telnet or Internet, QSL-printing tool, file import/export etc. etc. And it is both contest and logbook program.
You can download UCXLog version 4.08 from the bottom of this page:
http://www.funkstation.info/portal/html/modules.php?op=modload&name=Downloads&file=index&req=viewdownload&cid=1

regards Holger

997. hex beam specs

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-01 16:49:53 UTC
From: flhtsteve
Topic: 997 Message: 997

Hello,
I am kg4nmr, I am interested in building a hexbeam for 17m. How do I calculate the specifications to build the beam. Is there a good website that shows detailed instructions for building one

998. Re: [hex-beam] hex beam specs

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-02 11:02:14 UTC
From: K8NKE
Topic: 997 Message: 998

At 04:49 PM 10/1/02 +0000, you wrote:
>Hello,
>I am kg4nmr, I am interested in building a hexbeam for 17m. How do I
>calculate the specifications to build the beam. Is there a good
>website that shows detailed instructions for building one

>try the following site
>http://www.iol.ie/~bravo/ahexbeam.htm
>dale K8NKE
>Yahoo! Groups Sponsor
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><http://rd.yahoo.com/M=229441.2397090.3822005.2225242/D=egroupweb/S=1705063108:HM/A=11895
60/R=0/*http://www.bmgmusic.com/acq/ee/q6/enroll/mhn/10/>9d7b7bd.jpg
>9d7b93d.jpg
>
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><http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

999. Hex-Beam Schedules

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-05 18:44:58 UTC
From: w4wb
Topic: 999 Message: 999

Hi Folks,

I have had a number of you comment that the lack of a really specific time to check the Hex-Beam frequencies is not working out. I also have asked for specific suggestions, but haven't rx any.

OK, thinking about propagation and such, I changed the times to 1800 UTC and 2200 UTC plus the minutes offset by frequency every day. Perhaps Saturdays might be the prime day.

Any comments or interest?

Tnx es 73,
Barry = W4WB

1000. Re: [hex-beam] Hex-Beam Schedules

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-06 14:49:33 UTC
From: Meiselman
Topic: 999 Message: 1000

Barry:

Once again, you have demonstrated why you are known as the OWO (Old Wise One).

The suggested times and the offsets for each band make sense and should be tried. After all, if they don't work, we can always blame the OWO.

Regards, 73, and all that ham stuff,

Herb K6HJM

At 06:44 PM 10/5/2002 +0000, you wrote:
>Hi Folks,
>
>I have had a number of you comment that the lack of a really specific
>time to check the Hex-Beam frequencies is not working out. I also
>have asked for specific suggestions, but haven't rx any.
>
>OK, thinking about propagation and such, I changed the times to 1800
>UTC and 2200 UTC plus the minutes offset by frequency every day.
>Perhaps Saturdays might be the prime day.
>
>Any comments or interest?
>
>Tnx es 73,
>Barry = W4WB
>
>
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>hex-beam-unsubscribe@yahoogroups.com
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><http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268

323-442-2283 (FAX)
meiselma@...

[Non-text portions of this message have been removed]

1001. Re: hex beam specs

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-07 05:11:54 UTC
From: reidserv
Topic: 997 Message: 1001

```
--- In hex-beam@y..., "flhtsteve" <flhtsteve@y...> wrote:
> Hello,
> I am kg4nmr, I am interested in building a hexbeam for 17m. How do
I
> calculate the specifications to build the beam. Is there a good
> website that shows detailed instructions for building one

see "Quickie Hex Beam" at QRZ.Com!
```

1002. RE: [hex-beam] tool for getting a model

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-07 10:28:34 UTC
From: Peter Allaert
Topic: 996 Message: 1002

Tnx Holger, have downloaded it and been playing wit hit. As it is my first log program , I'm still looking to find my way around. But it looks great and has all I need (surprised of the "smallness = 716 kb" of the software in zip form) Very
structual and complete! Thanks again and you also Barry , but as this one was for free...
73's
Peter
-----Oorspronkelijk bericht-----
Van: dl7io [mailto:dl7io@...]
Verzonden: dinsdag 1 oktober 2002 14:24
Aan: hex-beam@yahoogroups.com
Onderwerp: [hex-beam] tool for getting a model

Hello all,
I have uploaded an excel file which is in my opinion more helpful than model files. The model for a multiband array is very complex and has more than 50 wires. So without this tool it is almost impossible to change anything and to know what you have done.

This excel file is calculating the X / Y / Z data for the model. No matter what program you will use. You can change the wire length (length per leg --> 2 legs per radiator or reflector element), the isolator distance and the distance from the center hub. All data are in centimeter (cm) but you can change it to feed.
Sheet 1 is for a single band version only.
Sheet 3 is for a multiband array.
Please do not use Sheet 2. There are some mistakes in the formulas. This was made for modelling a beam with one common feeding point for all elements. But I was not able to get useful results and did not continue this project. That's why I never corrected the mistakes.

The only thing you have to do by yourself is the feeding system. And here is the point where in my opinion most of the mistakes are possible. I don't trust my own feeding system model. So I decided to give you the excel file first and may be we can compare the part with the feeding of the model. While you are going to simulate the beam with the low impedance line take the wire lengths out of my .ppt file. The actual values in the file where used for a model with coax cable feeding between the radiators and from the bottom (mounting plate).

The best results are with a NEC4 machine. Programs based on Nec2 like EZNEC3.0 or Nec4Win have problems with closed wire elements and you have to check the results carefuly.

@Peter - logbook program
I'm using UCXLog. It is freeware and has grey line and rectangular maps with the path and beam headings to the other station. It does not need any installation setup and will not write dozens of .dll's on your harddisc or write in your registry. But it makes CW, you can run SSB via soundcard if you like, DX-Cluster via Packet, Telnet or Internet, QSL-printing tool, file import/export etc. etc. And it is both contest and logbook program.
You can download UCXLog version 4.08 from the bottom of this page:
http://www.funkstation.info/portal/html/modules.php?
<http://www.funkstation.info/portal/html/modules.php?>
op=modload&name=Downloads&file=index&req=viewdownload&cid=1

regards Holger

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[Non-text portions of this message have been removed]

1003. RE: [hex-beam] Hex-Beam Schedules

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-07 10:36:24 UTC
From: Peter Allaert
Topic: 999 Message: 1003

Hi Barry (OWO) (sorry i didn't mention your title earlier...
Looks good to me (Europe that is , it will be a problem for working the
east I suppose , but you have no "overall win" timing with these freq's ,
exept maybe 14 mhz)
Good idea to set a prime day aswell.
Hope to work you all
Peter ON4CCW
(NSWOY) (not so wise one yet)

-----Oorspronkelijk bericht-----
Van: w4wb [mailto:w4wb@...]
Verzonden: zaterdag 5 oktober 2002 19:45
Aan: hex-beam@yahoogroups.com
Onderwerp: [hex-beam] Hex-Beam Schedules

Hi Folks,

I have had a number of you comment that the lack of a really specific
time to check the Hex-Beam frequencies is not working out. I also
have asked for specific suggestions, but haven't rx any.

OK, thinking about propagation and such, I changed the times to 1800
UTC and 2200 UTC plus the minutes offset by frequency every day.
Perhaps Saturdays might be the prime day.

Any comments or interest?

Tnx es 73,
Barry = W4WB

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<http://us.adserver.yahoo.com/l?M=213858.2436161.3858594.2225242/D=egroupmai
l/S=:HM/A=763352/rand=822886841>

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[Non-text portions of this message have been removed]

1004. Hex-beam discussions on eHam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-07 21:07:23 UTC
From: tomac14
Topic: 1004 Message: 1004

Hello Hexbeamers:

"Yankee Doodle" reporting:

In case you missed it, see the web page below from QRZ.com. It contains some postings and discussions about Hexbeams and X-beams. Thought you might find the discussions interesting.

http://www.qrz.com/cgi-bin/ikonboard.cgi?act=ST&f=3&t=20418

73,

Tom, NØYD "Yankee Doodle"

1005. Re: Hex-beam discussions on eHam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-07 23:00:03 UTC
From: w4wb
Topic: 1004 Message: 1005

Hey Tom,

Interesting comments. The one by "DocRF" where he states that Mike "copied" the Hex-Beam from the reversed (opposed) M-beam indicates to me that he has trouble with basic geometry. The Hex-Beam has 60 deg angles while the M-beam, etc. don't. It makes a difference. Mike states that he came up with the configuration on his own. I would like anyone that knows where a "hex-beam" is documented that preceeds Traffie to kindly provide a reference.

73,
Barry - W4WB

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> Hello Hexbeamers:
>
> "Yankee Doodle" reporting:
>
> In case you missed it, see the web page below from QRZ.com. It
> contains some postings and discussions about Hexbeams and X-beams.
> Thought you might find the discussions interesting.
>
>
> http://www.qrz.com/cgi-bin/ikonboard.cgi?act=ST&f=3&t=20418
>
>
> 73,
>
> Tom, NØYD "Yankee Doodle"

1006. guy anchors

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-08 21:43:07 UTC
From: ab0si
Topic: 1006 Message: 1006

Greetings.

I placed an order for the Hexbeam 5-bander yesterday. (aside: friendliest phone call I have ever had). I also ordered the telescopic pole as a temporary resting place for the hex-beam until the city blesses my tower. (After that I will use the pole at my second QTH). It will be mounted in a sleeve and the sleeve planted in ement.

A few newbie questions for the ehlpful folks in this group:

1) Is a Channel Master TV rotoar good enough or should I go with one of the smaller "ham" rotors? (please remember, that this is not a heavy dury or permanent installation.)

2) I have no idea where to purchase guy anchors/stakes or whatever they are called. Where can I buy these?

3) Should I guy with wire or rope?

4) What else has my feeble mind forgotten?

Thanks e 73

Paul ab0si

1007. Re: guy anchors

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-08 22:46:45 UTC
From: w4wb
Topic: 1006 Message: 1007

Congratulations Paul! My answers are in the text below.
73,
Barry - W4WB

--- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> Greetings.
>
> I placed an order for the Hexbeam 5-bander yesterday. (aside:
> friendliest phone call I have ever had). I also ordered the
> telescopic pole as a temporary resting place for the hex-beam until
> the city blesses my tower. (After that I will use the pole at my
> second QTH). It will be mounted in a sleeve and the sleeve planted
in
> ement.
>
> A few newbie questions for the ehlpful folks in this group:
>
> 1) Is a Channel Master TV rotoar good enough or should I go with
one
> of the smaller "ham" rotors? (please remember, that this is not a
> heavy dury or permanent installation.)

Sure. Get one with the degrees on it if you can.
>
> 2) I have no idea where to purchase guy anchors/stakes or whatever
> they are called. Where can I buy these?

ACE Harware or any mobile home supply place.

>
> 3) Should I guy with wire or rope?

Never wire. Suggest the rope by Synthetic Textiles. AES carries
it. Great stuff.

>
> 4) What else has my feeble mind forgotten?

Coax and a balun. RG-213 is fine. Get 6 to 8 Type 77 ferrite beads
and locate below the base of the Hex-Beam (never above). Contact me
if you need to locate them and how to mount them. Also, get some
cable ties to secure the coax to the center post of the HB and to the
mast. There are three wrong ways to bring the coax from the HB and
one right way. It is shown in the manual.

1008. Re: [hex-beam] Re: guy anchors

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 01:24:49 UTC
From: b3s7a00@aol.com
Topic: 1006 Message: 1008

I am homebrewing a hexbeam, and I was not aware of any specific ways to feed it. Is it anything that you could clue me in on?

-Guy anchors....
I used some 48 inch bu 4 inch steel augers I purchased at Manards for guy anchors, and a 48 inch fence post anchor for the base (all of this costed under 10 bucks). I guess it wouldnt be a bad Idea to use rope, but I am using stranded steel wire for guys. I am insulating it at the tower, and at the stakes to prevent an unintentional ground plane (would eliminate the benifits of a tower)

-Coax
well, I purchased 100 hundred feet of rg8x on ebay (I thought it was rg8!), and am feeling sort of dumb. will the losses be great enough to justify buying more rg8?
-Tony Kc0lnd

[Non-text portions of this message have been removed]

1009. Re: guy anchors

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 01:30:54 UTC
From: ab0si
Topic: 1006 Message: 1009

Thanks again, Barry, for your help. Two follow-up questions.

1) I am not sure what "sure" means. Is it, I hope,sure I can use a
Channel Master? My fault for posing it as an either/or questions
(tell me, Mr. Smith, do you support the President or are you a
communist?)

> > 1) Is a Channel Master TV rotoar good enough or should I go with
> one
> > of the smaller "ham" rotors? (please remember, that this is not a
> > heavy dury or permanent installation.)
>
> Sure. Get one with the degrees on it if you can.

Why Type 77 ferrite beads? I assumed Type 43? This is mere curiosity
in the hopes that I might learn something (banging skull agaisnt wall
to force access to brain)

Thanks

Paul ab0si

> > 4) What else has my feeble mind forgotten?
>
> Coax and a balun. RG-213 is fine. Get 6 to 8 Type 77 ferrite
beads
> and locate below the base of the Hex-Beam (never above).

1010. Re: guy anchors

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 01:42:59 UTC
From: ab0si
Topic: 1006 Message: 1010

Thanks for the suggestions on guying.

8x is fairly lossy stuff. (1.9 dB at 28 MHz compared to 1.2 MHz for 213 and 0.64 for 9913 -- all per 100 ft).

When I called Traffie Technology (makers of the hex-beam) and asked about a balun, I was told it wasan't needed. They did suggest ferrite beads, though. Barry here suggested using both.

Paul ab0si

--- In hex-beam@y..., b3s7a00@a... wrote:
> I am homebrewing a hexbeam, and I was not aware of any specific ways to feed
> it. Is it anything that you could clue me in on?
>
> -Guy anchors....
> I used some 48 inch bu 4 inch steel augers I purchased at Manards for
> guy anchors, and a 48 inch fence post anchor for the base (all of this costed
> under 10 bucks). I guess it wouldnt be a bad Idea to use rope, but I am using
> stranded steel wire for guys. I am insulating it at the tower, and at the
> stakes to prevent an unintentional ground plane (would eliminate the benifits
> of a tower)
>
> -Coax
> well, I purchased 100 hundred feet of rg8x on ebay (I thought it was
> rg8!), and am feeling sort of dumb. will the losses be great enough to
> justify buying more rg8?
> -Tony Kc0lnd

1011. Re: guy anchors

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 03:30:15 UTC
From: w6hb
Topic: 1006 Message: 1011

Correction..... Barry recommends the #77 toroids in lieu of a coax balun. These are slid onto or clipped over, if you use the split version, the coax just below where it drops below the aluminum hexagonal base plate. It you use the split type with the nylon-looking cases, clip off the tits that grab the outer jacket. Secure them in place with a couple large UV-resistant tie raps below the lowest one. If you do not the tits will, over time, penetrate the jacket and expose the shield to the elements. Those who have not yet found the #77 toroids use #43 or whatever we have been able to find. Their purpose is to keep RF from flowing on the outside of the coax's shield and some materials do it better than others. Barry, the OWO, being the engineer that he is has found and is using the optimum mix. The prefered coax is the best 50 ohm type you can afford. If you expect to run high power definitely do not use RG-8X.
73 - Doug - W6HB

--- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> Thanks for the suggestions on guying.
>
> 8x is fairly lossy stuff. (1.9 dB at 28 MHz compared to 1.2 MHz for
> 213 and 0.64 for 9913 -- all per 100 ft).
>
> When I called Traffie Technology (makers of the hex-beam) and asked
> about a balun, I was told it wasan't needed. They did suggest
ferrite
> beads, though. Barry here suggested using both.
>
> Paul ab0si
>
>
> --- In hex-beam@y..., b3s7a00@a... wrote:
> > I am homebrewing a hexbeam, and I was not aware of any specific
> ways to feed
> > it. Is it anything that you could clue me in on?
> >
> > -Guy anchors....
> > I used some 48 inch bu 4 inch steel augers I purchased at
> Manards for
> > guy anchors, and a 48 inch fence post anchor for the base (all of
> this costed
> > under 10 bucks). I guess it wouldnt be a bad Idea to use rope,
but
> I am using
> > stranded steel wire for guys. I am insulating it at the tower,
and

> at the
> > stakes to prevent an unintentional ground plane (would eliminate
> the benifits
> > of a tower)
> >
> > -Coax
> > well, I purchased 100 hundred feet of rg8x on ebay (I
> thought it was
> > rg8!), and am feeling sort of dumb. will the losses be great
enough
> to
> > justify buying more rg8?
> > -Tony
Kc0lnd

1012. Re: guy anchors

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 04:02:30 UTC
From: w4wb
Topic: 1006 Message: 1012

Tony,

Yes, this has been discussed in the past and is in the archive. In short, run the coax between the reflector and the driven elements on the shield side.

Trust me, don't use guy wire even playing the non-resonant length game.

Re. the coax, get some RG-213 and be happy. It is only $40 or so per 100 feet as I recall. The coax you purchased is an excellent attenuator. ;-)

73,
Barry - W4WB

--- In hex-beam@y..., b3s7a00@a... wrote:
> I am homebrewing a hexbeam, and I was not aware of any specific ways to feed
> it. Is it anything that you could clue me in on?
>
> -Guy anchors....
> I used some 48 inch bu 4 inch steel augers I purchased at Manards for
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> stranded steel wire for guys. I am insulating it at the tower, and at the
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> of a tower)
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> -Coax
> well, I purchased 100 hundred feet of rg8x on ebay (I thought it was
> rg8!), and am feeling sort of dumb. will the losses be great enough to
> justify buying more rg8?
> -Tony Kc0lnd
>
>
> [Non-text portions of this message have been removed]

1013. Re: guy anchors

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 04:14:21 UTC
From: w4wb
Topic: 1006 Message: 1013

Paul,

Sorry about the clarity of my reply. Sure meant the Channel Master.
I used one with FB results until recently when I change to a CE-45-II
because I need to have the rotor under computer control.

The frequency performance of ferrite beads is strongly dependent upon
the material composition used. Type 77 (or 73 or F) is best for the
HF amateur bands. Type 43 is best for the VHF and UHF bands. In the
VHF spectrum, they are roughly the same. In the speech compressor we
market under W4RT Electronics for the FT-817, we use a mixture of
Types 43 and 73 beads since teh FT-817 covers 160 m to 70 cm. Since
the Hex-Beam is HF only, Type 73 is preferred IMO.

73,
Barry - W4WB

--- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> Thanks again, Barry, for your help. Two follow-up questions.
>
> 1) I am not sure what "sure" means. Is it, I hope,sure I can use a
> Channel Master? My fault for posing it as an either/or questions
> (tell me, Mr. Smith, do you support the President or are you a
> communist?)
>
> > > 1) Is a Channel Master TV rotoar good enough or should I go
with
> > one
> > > of the smaller "ham" rotors? (please remember, that this is not
a
> > > heavy dury or permanent installation.)
> >
> > Sure. Get one with the degrees on it if you can.
>
> Why Type 77 ferrite beads? I assumed Type 43? This is mere
curiosity
> in the hopes that I might learn something (banging skull agaisnt
wall
> to force access to brain)
>
> Thanks
>
> Paul ab0si
>
> > > 4) What else has my feeble mind forgotten?
> >

> > Coax and a balun. RG-213 is fine. Get 6 to 8 Type 77 ferrite
> beads
> > and locate below the base of the Hex-Beam (never above).

1014. Re: guy anchors

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 04:30:19 UTC
From: w4wb
Topic: 1006 Message: 1014

Paul,

There are baluns and there are baluns. I expect that what Traffie was discussing was the impedance conversion type, i.e., say 30 ohms to 50 ohms. This is not what I am talking about.

The balun I am suggesting you use is to eliminate or at least mitigate any current flowing on the outside of your coax shield (stops that nasty radiation and pickup by the coax). You can solve the problem various ways. One way is to make a simple 1:1 coax balun comprising a modest number of turns of single-layer coax about 4+ inches in diameter. It should be located just under the base of the Hex-Beam. This works, but has limited bandwidth and is somewhat fussy. A better way is to use ferrite beads bunched together and held in place just under the Hex-Beam's base plate. Type 77 is the best. Type 43 will work, but is not nearly as efficient. The beads I use are cylindrical with a 1" o.d. and slid over the RG-213. My balun has 8 beads and is held in place with heat shrink and a cable tie at the top and bottom of the balun. The beads I found are not made presently in 73, but 77 is essentially the same. The results compared to the coax balun are quite evident.

To be clear, don't use the coax balun and the beads. Just one, and I suggest the beads. I suggest that you read Walt W2DU's nice book called "Reflections II." You will learn more about SWR that you may care to do. ;-)

If you need a source for these beads, let me know.

73,
Barry - W4WB

--- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> Thanks for the suggestions on guying.
>
> 8x is fairly lossy stuff. (1.9 dB at 28 MHz compared to 1.2 MHz for
> 213 and 0.64 for 9913 -- all per 100 ft).
>
> When I called Traffie Technology (makers of the hex-beam) and asked
> about a balun, I was told it wasan't needed. They did suggest
ferrite
> beads, though. Barry here suggested using both.
>
> Paul ab0si
>

1015. Re: Hex-Beam Schedules

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 04:34:07 UTC
From: w4wb
Topic: 999 Message: 1015

Hey Herb, cut that OWO out! I'm not old (ask me) nor wise (ask XYL), but I am "one." Hmm... "A Station of One!" Nope, sounds like an Army of One and I am too old to play that again. ;-)

CUL,
Barry - W4WB

--- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> Barry:
>
> Once again, you have demonstrated why you are known as the OWO (Old Wise One).
>
> The suggested times and the offsets for each band make sense and should be
> tried. After all, if they don't work, we can always blame the OWO.
>
> Regards, 73, and all that ham stuff,
>
> Herb K6HJM
>

1016. Hex-Beam vs. Qaud?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 05:21:33 UTC
From: st_christobal
Topic: 1016 Message: 1016

Hi all,

I am contemplating putting up a HX-5Bi at my QTH. But I'm also very attracted to the Lighning Bolt 2L 5-Band Quad.

Have any of you OMs done direct comparisons between these two types of antennas?

As you know, the Quad is *much* cheaper, but requires a bigger rotator and tower. I have neither at this stage.

Perhaps, the way to go would be to get the Hex-Beam with a light mast and rotator. When funds allow, I'll put up the bigger tower for a 4L quad.

I like DX ragchewing, so a good antenna is a must for me HI. BTW, I currently have a Hustler 4BTV on my metal roof (works ok) and a 40m horizontal delta loop.

Any advice will be much appreciated. Thanks!

73, Chris - ZS1DX

(Stellenbosch, South Africa)

1017. Re: guy anchors

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 06:54:41 UTC
From: ab0si
Topic: 1006 Message: 1017

Very helpful, thanks again, sir. I buy my ferrite at Palomar
Engineers. They routinely carry 43,73, and 77 in various sizes.

Paul ab0si

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Paul,
>
> There are baluns and there are baluns. I expect that what Traffie
> was discussing was the impedance conversion type, i.e., say 30 ohms
> to 50 ohms. This is not what I am talking about.
>
> The balun I am suggesting you use is to eliminate or at least
> mitigate any current flowing on the outside of your coax shield
> (stops that nasty radiation and pickup by the coax). You can solve
> the problem various ways. One way is to make a simple 1:1 coax
balun
> comprising a modest number of turns of single-layer coax about 4+
> inches in diameter. It should be located just under the base of
the
> Hex-Beam. This works, but has limited bandwidth and is somewhat
> fussy. A better way is to use ferrite beads bunched together and
> held in place just under the Hex-Beam's base plate. Type 77 is the
> best. Type 43 will work, but is not nearly as efficient. The
beads
> I use are cylindrical with a 1" o.d. and slid over the RG-213. My
> balun has 8 beads and is held in place with heat shrink and a cable
> tie at the top and bottom of the balun. The beads I found are not
> made presently in 73, but 77 is essentially the same. The results
> compared to the coax balun are quite evident.
>
> To be clear, don't use the coax balun and the beads. Just one, and
I
> suggest the beads. I suggest that you read Walt W2DU's nice book
> called "Reflections II." You will learn more about SWR that you
may
> care to do. ;-)
>
> If you need a source for these beads, let me know.
>
> 73,
> Barry - W4WB
>
> --- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> > Thanks for the suggestions on guying.

> >
> > 8x is fairly lossy stuff. (1.9 dB at 28 MHz compared to 1.2 MHz
for
> > 213 and 0.64 for 9913 -- all per 100 ft).
> >
> > When I called Traffie Technology (makers of the hex-beam) and
asked
> > about a balun, I was told it wasan't needed. They did suggest
> ferrite
> > beads, though. Barry here suggested using both.
> >
> > Paul ab0si
> >

1018. Re: ferrite beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 12:13:29 UTC
From: w4wb
Topic: 1006 Message: 1018

FB Paul, but beware that (for whatever reason) they seem to push Type 43 for HF. Also, there are also different qualities, i.e., all ferrite beads are not the same (some have failed in short order so I have been told). I don't know who Palomar's present ferrite bead supplier is, but it is worth the question. Amidon is the first-class source; however, there "appears" to be two Amidons. There was an ad in the last couple of months in CQ or QST about this. I suggest that you use the real Amidon. As I recall, the part # is FB-77-1024 and their url is
http://www.amidon-inductive.com/associates_specs_ferrites.htm
(specifications page). Oh yes, don't attempt to glue the bead together, just let them loosely group together. And don't get confused by their balun page, it's not what you want.
73,
Barry - W4WB

--- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> Very helpful, thanks again, sir. I buy my ferrite at Palomar
> Engineers. They routinely carry 43,73, and 77 in various sizes.
>
> Paul ab0si
>

1019. RE: [hex-beam] Hex-Beam vs. Qaud?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 12:14:09 UTC
From: Peter's Mail
Topic: 1016 Message: 1019

Chris,

I used the Lightning Bolt 2L 5-Band Quad for several years. It was hung atop my tower around 65-foot AGL.

Performance was excellent.
Very quiet
Good front to back
Broad beam width
Very large compared to the HEX
Disintegrated in an ice storm (Hub broke into many pieces)
Lot's of tuning required

HEX Beam

Much better material quality
A great deal smaller
More balanced physically
Not much front to back ratio
Less Forward effective gain
Plug & Play no tuning

I would highly recommend the HEX over the Lightning Bolt. What ever I hear on the bands I can work. With the amp on, I regularly receive reports "you are the loudest signal on the band".

HEX is mounted at the 40-foot level AGL on a roof tower.

Both antennas have given rise to lots of questions from folks passing by but I must say the HEX wins out 2:1 due to its unique physical design.

I live on the New Jersey shore near the ocean - Big winds - no issue with the HEX

73

REN WB3FSR

Peter D. Vouvounas Ofc: 732-701-1130
Cell:732-674-4001
98 Meridian Dr.
Brick, NJ 08724
Mailto: wb3fsr@...
InterActive 2way: wb3fsr@...

> -----Original Message-----
> From: st_christobal [mailto:christian@...]

> Sent: Wednesday, October 09, 2002 01:22
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] Hex-Beam vs. Qaud?
>
> Hi all,
>
> I am contemplating putting up a HX-5Bi at my QTH. But I'm also very
> attracted to the Lighning Bolt 2L 5-Band Quad.
>
> Have any of you OMs done direct comparisons between these two types
> of antennas?
>
> As you know, the Quad is *much* cheaper, but requires a bigger
> rotator and tower. I have neither at this stage.
>
> Perhaps, the way to go would be to get the Hex-Beam with a light mast
> and rotator. When funds allow, I'll put up the bigger tower for a 4L
> quad.
>
> I like DX ragchewing, so a good antenna is a must for me HI. BTW, I
> currently have a Hustler 4BTV on my metal roof (works ok) and a 40m
> horizontal delta loop.
>
> Any advice will be much appreciated. Thanks!
>
> 73, Chris - ZS1DX
>
> (Stellenbosch, South Africa)
>
>
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>

1020. Re: [hex-beam] Re: Hex-Beam Schedules

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 12:14:12 UTC
From: Marty N5NW
Topic: 999 Message: 1020

Funny, I translated "OWO" as "O Wierd One" ... :)

Have fun,
de N5NW/8 (Marty)
Bellbrook, Ohio

----- Original Message -----
From: "w4wb" <w4wb@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, October 09, 2002 12:34 AM
Subject: [hex-beam] Re: Hex-Beam Schedules

> Hey Herb, cut that OWO out! I'm not old (ask me) nor wise (ask XYL),
> but I am "one." Hmm... "A Station of One!" Nope, sounds like an
> Army of One and I am too old to play that again. ;-)
>
> CUL,
> Barry - W4WB
>
>
> --- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> > Barry:
> >
> > Once again, you have demonstrated why you are known as the OWO (Old
> Wise One).
> >
> > The suggested times and the offsets for each band make sense and
> should be
> > tried. After all, if they don't work, we can always blame the OWO.
> >
> > Regards, 73, and all that ham stuff,
> >
> > Herb K6HJM
> >
>
>
>
>
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> hex-beam-unsubscribe@yahoogroups.com
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>
>
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>

1021. RE: [hex-beam] Hex-Beam vs. Quad? HEX PIC's

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 12:29:12 UTC
From: Peter's Mail
Topic: 1021 Message: 1021

Chris,

Forgot to include a link to my HEX pictures....

http://photos.yahoo.com/wb3fsr

1022. RE: [hex-beam] Re: ferrite beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 12:42:08 UTC
From: Peter's Mail
Topic: 1006 Message: 1022

Barry,

Are you still using the #43 from All Electronics? Or did you change them out? I want to get up on the tower before winter sets in and place some ferrites on the feedline. I have many of the #43 on hand.

73

REN WB3FSR

1023. Re: ferrite beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 14:18:01 UTC
From: w4wb
Topic: 1006 Message: 1023

Hi Ren,

I got a number of Type 43 from All Electronics (cheap), but I never really used them. I had a 12-bead balun on the coax at the bottom of the mast (doing little good) just waiting to drop the antenna, remove the coax balun, and replace the rotor. In the meantime, Amidon finally got the needed Type 77 beads back in stock (not cheap) so I ordered them and used them instead when we dropped the antenna down a few weeks ago. All RFI issue with the company phone system are now gone. The Type 43 is about 1/2 or less effective on 20 m as the Type 77, so add more beads. My Type 43 balun has 12 beads (using it on the Titan vertical now).

73,
Barry - W4WB

--- In hex-beam@y..., Peter's Mail <wb3fsr@c...> wrote:
> Barry,
>
> Are you still using the #43 from All Electronics? Or did you change
> them out? I want to get up on the tower before winter sets in and
> place some ferrites on the feedline. I have many of the #43 on
hand.
>
> 73
>
> REN WB3FSR

1024. Beads and stuff

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 17:06:43 UTC
From: Herbert Meiselman
Topic: 1024 Message: 1024

I am sorry that I started (or aided) the discussion regarding Barry as the "OWO". I appear to have made a mistake regarding this abbreviation inasmuch as apparently it stands for O Wierd One" based upon the information from Marty (N5NW/8). Sorry about that Barry!

OK...more serious question. Amidon Associates does have the 77 beads but only as non-split rings. However, they do have a new product not yet shown on their web page. It is their catalog # 2X31-181P2, is type 31 material, is a split bead with case, is in stock and sells for $3.50 each. Seems it has the same U value as 77 (2000). Barry..what ya think?

73,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

1025. Re: Beads and stuff

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 17:56:07 UTC
From: w4wb
Topic: 1024 Message: 1025

Herb,

I don't want a split bead if I don't have to have one. The Type 77 bead I reference simply slides on the coax. Did I mention that you might have to take off your coax connector and put it back after the beads are on? For a ham like you Herb, that's no problem is it. :-)

As far as the Type 31, I know nothing about it and consequently, I go with what I know will work FB. Try it if you wish and let us know how it behaves.

73,
Barry - W4WB

--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> I am sorry that I started (or aided) the discussion regarding Barry as the
> "OWO". I appear to have made a mistake regarding this abbreviation
> inasmuch as apparently it stands for O Wierd One" based upon the
> information from Marty (N5NW/8). Sorry about that Barry!
>
> OK...more serious question. Amidon Associates does have the 77 beads but
> only as non-split rings. However, they do have a new product not yet shown
> on their web page. It is their catalog # 2X31-181P2, is type 31 material,
> is a split bead with case, is in stock and sells for $3.50 each. Seems it
> has the same U value as 77 (2000). Barry..what ya think?
>
> 73,
>
> Herb K6HJM
>
>
>
>
> Herbert J. Meiselman, ScD
> Professor and Vice-Chair
> Dept. Physiology and Biophysics
> University of Southern California
> Keck School of Medicine
> 1333 San Pablo Street, MMR 626
> Los Angeles, CA 90033
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> meiselma@h...
>
>
> [Non-text portions of this message have been removed]

1026. Re: [hex-beam] Re: Beads and stuff

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 19:04:03 UTC
From: Herbert Meiselman
Topic: 1024 Message: 1026

What? Remove a coax connector? I assumed one just pushed hard and the non-split bead just slipped on...wrong again? It is clear that I will never achieve as high a level of RF-greatness as the OWO.

Cheers and 73,

Herb K6HJM

At 05:56 PM 10/9/02 +0000, you wrote:
>Herb,
>
>I don't want a split bead if I don't have to have one. The Type 77
>bead I reference simply slides on the coax. Did I mention that you
>might have to take off your coax connector and put it back after the
>beads are on? For a ham like you Herb, that's no problem is it. :-)
>
>As far as the Type 31, I know nothing about it and consequently, I go
>with what I know will work FB. Try it if you wish and let us know
>how it behaves.
>
>73,
>Barry - W4WB
>
>--- In hex-beam@y..., Herbert Meiselman <meiselma@h...> wrote:
> > I am sorry that I started (or aided) the discussion regarding Barry
>as the
> > "OWO". I appear to have made a mistake regarding this abbreviation
> > inasmuch as apparently it stands for O Wierd One" based upon the
> > information from Marty (N5NW/8). Sorry about that Barry!
> >
> > OK...more serious question. Amidon Associates does have the 77
>beads but
> > only as non-split rings. However, they do have a new product not
>yet shown
> > on their web page. It is their catalog # 2X31-181P2, is type 31
>material,
> > is a split bead with case, is in stock and sells for $3.50 each.
>Seems it
> > has the same U value as 77 (2000). Barry..what ya think?
> >
> > 73,
> >
> > Herb K6HJM
> >
> >
> >

> >
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> >
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> > [Non-text portions of this message have been removed]
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meiselma@...

[Non-text portions of this message have been removed]

1027. Re: [hex-beam] Re: guy anchors

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 20:49:45 UTC
From: b3s7a00@aol.com
Topic: 1006 Message: 1027

ok, tnx for the info.

[Non-text portions of this message have been removed]

1028. Re: [hex-beam] Re: ferrite beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 21:00:52 UTC
From: Nigel Gunn
Topic: 1006 Message: 1028

If anybody needs ferrite beads as described below, I'm prepared to order a sensible quantity. I will be in the US from 20 Oct to 17 Nov. You can pick them up from me at Dayton ;-)

de Nigel G8IFF

----- Original Message -----
From: "w4wb" <w4wb@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, October 09, 2002 1:13 PM
Subject: [hex-beam] Re: ferrite beads

> FB Paul, but beware that (for whatever reason) they seem to push Type
> 43 for HF. Also, there are also different qualities, i.e., all
> ferrite beads are not the same (some have failed in short order so I
> have been told). I don't know who Palomar's present ferrite bead
> supplier is, but it is worth the question. Amidon is the first-class
> source; however, there "appears" to be two Amidons. There was an ad
> in the last couple of months in CQ or QST about this. I suggest that
> you use the real Amidon. As I recall, the part # is FB-77-1024 and
> their url is
> http://www.amidon-inductive.com/associates_specs_ferrites.htm
> (specifications page). Oh yes, don't attempt to glue the bead
> together, just let them loosely group together. And don't get
> confused by their balun page, it's not what you want.
> 73,
> Barry - W4WB
>
> --- In hex-beam@y..., "ab0si" <ab0si@y...> wrote:
> > Very helpful, thanks again, sir. I buy my ferrite at Palomar
> > Engineers. They routinely carry 43,73, and 77 in various sizes.
> >
> > Paul ab0si
> >
>
>
>
>
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>
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>

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.394 / Virus Database: 224 - Release Date: 03/10/2002

1029. Re: [hex-beam] Re: ferrite beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 21:03:46 UTC
From: Nigel Gunn
Topic: 1006 Message: 1029

```
----- Original Message -----
From: "w4wb" <w4wb@...>
To: <hex-beam@yahoogroups.com>
Type 77 beads back in stock (not cheap)

$2 each. Sounds cheap to me.

---
Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.394 / Virus Database: 224 - Release Date: 03/10/2002
```

1030. RE: [hex-beam] Re: Hex-Beam Schedules

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-09 22:38:57 UTC
From: Marty N5NW
Topic: 999 Message: 1030

I should have said ... this is what people mean when they refer to ME as
"OWO" ... :)

-----Original Message-----
From: Marty N5NW [mailto:n5nw@...]
Sent: Wednesday, October 09, 2002 8:14 AM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] Re: Hex-Beam Schedules

Funny, I translated "OWO" as "O Wierd One" ... :)

Have fun,
de N5NW/8 (Marty)
Bellbrook, Ohio

----- Original Message -----
From: "w4wb" <w4wb@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, October 09, 2002 12:34 AM
Subject: [hex-beam] Re: Hex-Beam Schedules

> Hey Herb, cut that OWO out! I'm not old (ask me) nor wise (ask XYL),
> but I am "one." Hmm... "A Station of One!" Nope, sounds like an
> Army of One and I am too old to play that again. ;-)
>
> CUL,
> Barry - W4WB
>
>
> --- In hex-beam@y..., Meiselman <meiselma@h...> wrote:
> > Barry:
> >
> > Once again, you have demonstrated why you are known as the OWO (Old
> Wise One).
> >
> > The suggested times and the offsets for each band make sense and
> should be
> > tried. After all, if they don't work, we can always blame the OWO.
> >
> > Regards, 73, and all that ham stuff,
> >
> > Herb K6HJM
> >
>
>
>

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1031. Re: ferrite beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-10 20:41:57 UTC
From: tomac14
Topic: 1006 Message: 1031

Hi Barry:

How many of the type 77 beads did you use just under the base plate of your Hexbeam. I know you've mentioned it in another posting, but I couldn't find that posting.

I think you said that the type 77 were not split. What do you recommend (Number and type#)of a split bead??

Tnx and 73,

Tom, NØYD "Yankee Doodle"

1032. Re: ferrite beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-10 22:01:29 UTC
From: w4wb
Topic: 1006 Message: 1032

Hi Tom,

I used eight beads. If you want to use the Type 43 split beads, then I would suggest using at least 12. Doug W6HB has mentioned the problem of using those that have the snap holders and how they may damage the coax. When we made the Type 43 balun, we epoxied the two halves together, but not the beads together.

The Type 77 just slide onto the coax.

73,
Barry - W4WB

p.s. Having fun again DXing now that the space WX has improved.

--- In hex-beam@y..., "tomac14" <tomac14@y...> wrote:
> Hi Barry:
>
> How many of the type 77 beads did you use just under the base plate
> of your Hexbeam. I know you've mentioned it in another posting, but
I
> couldn't find that posting.
>
> I think you said that the type 77 were not split. What do you
> recommend (Number and type#)of a split bead??
>
> Tnx and 73,
>
> Tom, NØYD "Yankee Doodle"

1033. HX-5B Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-10 14:12:09 UTC
From: ke4vpe
Topic: 1033 Message: 1033

I am thinking about getting a HexBeam, but I do not know if it too large. What is the diameter of the HX-5Bi Hexbeam, and what is the length of the spreaders?

Thanks,

Reggie

1034. Homebrew Poles Source ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-10 19:01:54 UTC
From: jgrudin
Topic: 1034 Message: 1034

I am new to hex beams and would like to try building a triband (10-15-20) variety for portable contesting.

I tried looking back through the archives to find a source for the poles and was unsuccessfull.

Can any of you guys that have homebrewed one of these share your pole source with me.

Thanks.

Jeff AC6KW

1035. Re: HX-5B Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-10 22:04:23 UTC
From: w4wb
Topic: 1033 Message: 1035

--- In hex-beam@y..., "ke4vpe" <ke4vpe@y...> wrote:
> I am thinking about getting a HexBeam, but I do not know if it too
> large. What is the diameter of the HX-5Bi Hexbeam, and what is the
> length of the spreaders?
>
> Thanks,
>
> Reggie

Hi Reggie,

It depend upon what bands you want to operate. The 5-bander, (10-20 m) has a turning radius just under 10'.

73,
Barry - W4WB

1036. Re: [hex-beam] Homebrew Poles Source ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-11 02:11:36 UTC
From: b3s7a00@aol.com
Topic: 1034 Message: 1036

do you mean the spreaders?

[Non-text portions of this message have been removed]

1037. homebrew hexbem

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-11 03:02:34 UTC
From: b3s7a00@aol.com
Topic: 1037 Message: 1037

Well, for the person that asked about the spreaders,
I am also homebrewing a 20/17 meter hex, and I am using 10 foot by 3/4 inch
thin-wall PVC pipe for spreaders. costing a dollar a piece, and fairly light,
I find them to be a great value.

[Non-text portions of this message have been removed]

1038. Re: [hex-beam] Re: ferrite beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-11 20:27:53 UTC
From: Eric Carling
Topic: 1006 Message: 1038

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 10 October 2002 21:58:03
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: ferrite beads

Hi Tom,

I used eight beads. If you want to use the Type 43 split beads, then I would suggest using at least 12. Doug W6HB has mentioned the problem of using those that have the snap holders and how they may damage the coax. When we made the Type 43 balun, we epoxied the two halves together, but not the beads together.

The Type 77 just slide onto the coax.

73,
Barry - W4WB

p.s. Having fun again DXing now that the space WX has improved.

Condx are still chronic over here in EU I have to say. But I just had my first Hexbeam to Hexbeam QSO - with Tony AD1Y
who is a really nice guy as anyone who has spoken with him will know. So it was a nice contact for me to work him, 5/8 both ways on a poor 15mtrs.

As for DX, only S07L has been notable recently which actually is not too hard from here and a few other Africans like 5H and 5X.

73 de Eric G0CGL.

[Non-text portions of this message have been removed]

1039. Re: ferrite beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-12 00:15:55 UTC
From: ad1y1
Topic: 1006 Message: 1039

--- In hex-beam@y..., "Eric Carling" <g0cg1@u...> wrote:
> -------Original Message-------
>
> From: hex-beam@y...
> Date: 10 October 2002 21:58:03
> To: hex-beam@y...
> Subject: [hex-beam] Re: ferrite beads
>
> Hi Tom,
>
> I used eight beads. If you want to use the Type 43 split beads,
then
> I would suggest using at least 12. Doug W6HB has mentioned the
> problem of using those that have the snap holders and how they may
> damage the coax. When we made the Type 43 balun, we epoxied the two
> halves together, but not the beads together.
>
> The Type 77 just slide onto the coax.
>
> 73,
> Barry - W4WB
>
> p.s. Having fun again DXing now that the space WX has improved.
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>
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> Condx are still chronic over here in EU I have to say. But I just
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> was a nice contact for me to work him, 5/8 both ways on a poor
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>
> As for DX, only S07L has been notable recently which actually is
not too
> hard from here and a few other Africans like 5H and 5X.
>
>
> 73 de Eric G0CGL.
>
> [Non-text portions of this message have been removed]

A pleasure to meetup with you again Eric. I'm very glad to give you
your first HB to HB contact. Only 99 more to go (HI)!

Mike mentioned to me that the HB was designed without a balun, so should work fine without one or with one if individual circumstances so require.

Really glad you're enjoying the Hex Beam. Continued success with it!

73,

Tony, AD1Y

1040. New poll for hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-12 03:26:17 UTC
From: hex-beam@yahoogroups.com
Topic: 406 Message: 1040

Enter your vote today! A new poll has been created for the
hex-beam group:

FOR OWNERS OF THE COMMERCIAL TRAFFIE HX-
5B or HX-5Bi:

Based on your "on the air" operating
experience (not computer modeling) at
your station, what do you believe the
gain of your antenna to be?

o 20 meters: Less than 3 dBd
o 20 meters: 3 dBd
o 20 meters: 4 dBd
o 20 meters: 5 dBd
o 20 meters: Greater than 5 dBd
o 17 meters: Less than 3 dBd
o 17 meters: 3 dBd
o 17 meters: 4 dBd
o 17 meters: 5 dBd
o 17 meters: Greater than 5 dBd
o 15 meters: Less than 3 dBd
o 15 meters: 3 dBd
o 15 meters: 4 dBd
o 15 meters: 5 dBd
o 15 meters: Greater than 5 dBd
o 12 meters: Less than 3 dBd
o 12 meters: 3 dBd
o 12 meters: 4 dBd
o 12 meters: 5 dBd
o 12 meters: Greater than 5 dBd
o 10 meters: Less than 3dBd
o 10 meters: 3 dBd
o 10 meters: 4 dBd
o 10 meters: 5 dBd
o 10meters: Greater than 5 dBd

To vote, please visit the following web page:

http://groups.yahoo.com/group/hex-beam/surveys?id=10934555

Note: Please do not reply to this message. Poll votes are
not collected via email. To vote, you must go to the Yahoo! Groups
web site listed above.

Thanks!

1041. Re: [hex-beam] New poll for hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-12 15:38:58 UTC
From: Meiselman
Topic: 406 Message: 1041

Hey...who sent this poll? Further, who will analyze the resulting
data? What purpose will be served?

No info from me until the above questions are answered.

Herb K6HJM

At 03:26 AM 10/12/2002 +0000, you wrote:

>Enter your vote today! A new poll has been created for the
>hex-beam group:
>
>FOR OWNERS OF THE COMMERCIAL TRAFFIE HX-
>5B or HX-5Bi:
>
>Based on your "on the air" operating
>experience (not computer modeling) at
>your station, what do you believe the
>gain of your antenna to be?
>
> o 20 meters: Less than 3 dBd
> o 20 meters: 3 dBd
> o 20 meters: 4 dBd
> o 20 meters: 5 dBd
> o 20 meters: Greater than 5 dBd
> o 17 meters: Less than 3 dBd
> o 17 meters: 3 dBd
> o 17 meters: 4 dBd
> o 17 meters: 5 dBd
> o 17 meters: Greater than 5 dBd
> o 15 meters: Less than 3 dBd
> o 15 meters: 3 dBd
> o 15 meters: 4 dBd
> o 15 meters: 5 dBd
> o 15 meters: Greater than 5 dBd
> o 12 meters: Less than 3 dBd
> o 12 meters: 3 dBd
> o 12 meters: 4 dBd
> o 12 meters: 5 dBd
> o 12 meters: Greater than 5 dBd
> o 10 meters: Less than 3dBd
> o 10 meters: 3 dBd
> o 10 meters: 4 dBd
> o 10 meters: 5 dBd
> o 10meters: Greater than 5 dBd
>

>
>To vote, please visit the following web page:
>
><http://groups.yahoo.com/group/hex-beam/surveys?id=10934555>http://groups.y
>ahoo.com/group/hex-beam/surveys?id=10934555
>
>Note: Please do not reply to this message. Poll votes are
>not collected via email. To vote, you must go to the Yahoo! Groups
>web site listed above.
>
>Thanks!
>
>
>
>
>
>
>
>Yahoo! Groups Sponsor
>ADVERTISEMENT
>
>To unsubscribe from this group, send an email to:
>hex-beam-unsubscribe@yahoogroups.com
>
>
>
>Your use of Yahoo! Groups is subject to the
><http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

[Non-text portions of this message have been removed]

1042. Considering....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-12 13:22:07 UTC
From: Jason Hissong
Topic: 1042 Message: 1042

Hi guys,

Stumbled across an ad for the Hex beam and read about it in Eham.net and at the hexbeam site. It seems to fit the bill nicely for me. I am considering the HX5 version versus a Force 12 XR5. I am still considering tower choices. I already have a Yaesu 450XL rotor which would be adequate for the Hex beam. What I like the most about the hex beam is that for a smaller weight and area, I am getting the equivalent to an XR5 from Force 12. At about the same price.

I would love to homebrew a single bander just for grins... are there any details on constructing my own? (I will still be getting the HX5 later)

Also, I was looking over the pictures and I noticed someone had an Aluma crankup. I could not find any prices on their crankups, but that sounds like a nice alternative. What type of prices (including freight) and turnaround time is there on their standard duty crankup? (T135) My current tower choices are Rohn 25G, 45G, Trylon, and Universal. The city I live in will allow me to construct a crankup tower no higher than 35 feet without a variance hearing. I may be able to install a crankup that will go higher, but need to keep it below 35 feet until after the variance.

Thanks guys... I will let you know of my progress on the tower....

Jason Hissong
N8XE

1043. Re: [hex-beam] Considering....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-12 23:05:10 UTC
From: Barry Baker
Topic: 1043 Message: 1043

Jason,
Nice to meet you. I would be glad to meet with you on 20m and talk about
my installation. Send Frequency.

73
Barry in Missouri
K0QV
----- Original Message -----
From: Jason Hissong
To: hex-beam@yahoogroups.com
Sent: Saturday, October 12, 2002 8:22 AM
Subject: [hex-beam] Considering....

Hi guys,

Stumbled across an ad for the Hex beam and read about it in Eham.net and
at
the hexbeam site. It seems to fit the bill nicely for me. I am
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the HX5 version versus a Force 12 XR5. I am still considering tower
choices. I already have a Yaesu 450XL rotor which would be adequate for
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will allow me to construct a crankup tower no higher than 35 feet without
a
variance hearing. I may be able to install a crankup that will go higher,
but need to keep it below 35 feet until after the variance.

Thanks guys... I will let you know of my progress on the tower....

Jason Hissong
N8XE

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hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

1044. Re: Considering....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-13 00:08:09 UTC
From: w4wb
Topic: 1042 Message: 1044

Hi Jason,

Welcome to the Group. Am sure you will be happy with a Hex-Beam. Regarding info on making your own HB, look in the Files area of this site and perhaps http://www.iol.ie/~bravo/ahexbeam.htm.

73,
Barry - W4WB

--- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> Hi guys,
>
> Stumbled across an ad for the Hex beam and read about it in Eham.net and at
> the hexbeam site. It seems to fit the bill nicely for me. I am considering
> the HX5 version versus a Force 12 XR5. I am still considering tower
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> but need to keep it below 35 feet until after the variance.
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> Thanks guys... I will let you know of my progress on the tower....
>
> Jason Hissong
> N8XE

1045. Re: Considering....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-13 05:05:30 UTC
From: Jason Hissong
Topic: 1042 Message: 1045

Thanks guys for the warm welcome. I just thought of a potential alternative while I was tossing and turning in bed thinking of the work a tower would bring. I really don't want to go through the trouble of putting up a tower. However, I was looking at the HDX-30 mast. I used to have a GAP Vertical in the back yard. So I have a 3 or 4 feet deep by 1 foot in diameter hole filled with concrete and a piece of PVC pipe I used as a sleeve for the rigid steel pipe the vertical was attached to. I also have a Yaesu 450XL Rotor in mint condition I got from a trade. Can I work with this stuff and get me a rotatable Hexbeam in the air? I would not have to go through a permit process as it would be stealth and "temporary". I also have a top section of Rohn tower that would be about 10 feet high. I could get a base and have a 10 foot "tower" where the rotor would sit, a thrust bearing, and the mast sticking out the top. That may work too. For the cost of a tower, I could stack a couple of HX5s up. Does this sound like it may work?

Thanks again guys... if this works, I will be able to do this. My credit card is also ready to be used if I can get this to work :-)

Thanks guys!

Jason Hissong
N8XE

1046. Re: Considering....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-13 05:21:57 UTC
From: w6hb
Topic: 1042 Message: 1046

Sounds like a plan Jason! My HX-5Bi works well for me at about 30 feet AGL. I am on now if you would to sked and compare notes. The HDX might be a little light for stacking Hexs, but works well with the rotator at the bottom, two tiers of Dacron guys and the Hex on top.I have an old 2-section Triex crank up that I have braced to the eaves and held to 30' for the same reason you are considering a similiar thing. 73 - Doug - W6HB

--- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> Thanks guys for the warm welcome. I just thought of a potential
> alternative while I was tossing and turning in bed thinking of the
> work a tower would bring. I really don't want to go through the
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> credit card is also ready to be used if I can get this to work :-)
>
> Thanks guys!
>
> Jason Hissong
> N8XE

1047. Re: Considering....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-13 07:44:53 UTC
From: w4wb
Topic: 1042 Message: 1047

Should work fine Jason. The HDX-30 mast is a very FB mast. If you would like, I have a pdf copy of the manual I can send to you if you would like to see more about it. You can mount the rotor at the base or at the top. Traffie can work with you to make a rotor to HDX-30 base adaptor.

Look at the home page for this list and notice the photo of P5/4L4FN. Ed has the 10-15 m HB on the HDX-30 mast.

A friend of mine in Guam just ordered the HX-5B and the HDX-30 FWIW.

Hope this helps. Just ask and I'm sure you will get plenty of guidance.

73,
Barry - W4WB

--- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> Thanks guys for the warm welcome. I just thought of a potential
> alternative while I was tossing and turning in bed thinking of the
> work a tower would bring. I really don't want to go through the
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> up. Does this sound like it may work?
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> Thanks again guys... if this works, I will be able to do this. My
> credit card is also ready to be used if I can get this to work :-)
>
> Thanks guys!
>
> Jason Hissong
> N8XE

1048. Re: Considering....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-13 18:22:21 UTC
From: Jason Hissong
Topic: 1042 Message: 1048

Thanks guys,

I asked this same question on the Tower Talk list and they seem to think that this would not be a good idea. They stated that the mast would not be able to support the Hexbeam in high winds. Also, would the base be sufficient (the one I have for the vertical). From what I understand, it looks like I cannot get away without using guys. What would be the best way to guy the mast? (i.e. what would I use at the bottom of the guys). I would be able to mount the mast to the back of the garage and house (about 15')

I just want to get a lightweight beam up. I think the hexbeam at 30 feet would do better than my dipole at 30 feet.

I may take some pictures of my planned area of installation and maybe you guys can help me with what I may need. I can post the pictures up on the photos area.

The PDF of the HDX manual would be great!! Thanks!

Jason
N8XE

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Should work fine Jason. The HDX-30 mast is a very FB mast. If
you
> would like, I have a pdf copy of the manual I can send to you if
you
> would like to see more about it. You can mount the rotor at the
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> or at the top. Traffie can work with you to make a rotor to HDX-
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> base adaptor.
>
> Look at the home page for this list and notice the photo of
> P5/4L4FN. Ed has the 10-15 m HB on the HDX-30 mast.
>
> A friend of mine in Guam just ordered the HX-5B and the HDX-30
FWIW.
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> Hope this helps. Just ask and I'm sure you will get plenty of
> guidance.
>
> 73,
> Barry - W4WB
>

>
>
> --- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> > Thanks guys for the warm welcome. I just thought of a potential
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> > Thanks again guys... if this works, I will be able to do this.
My
> > credit card is also ready to be used if I can get this to work :-
)
> >
> > Thanks guys!
> >
> > Jason Hissong
> > N8XE

1049. Re: Considering....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-13 19:46:26 UTC
From: w4wb
Topic: 1042 Message: 1049

Hi Jason,

I didn't understand before that you were trying to use the HDX-30 sans guys. The HDX-30 or other mast like this must have guys. You should have two sets of guys. I suggest you use SYNTHETIC TEXTILES 350' 3/16" available from AES http://search.cartserver.com/search/search.cgi?cartid=a-6994&category=newprices2&maxhits=200&keywords=synthetic+textiles for the guys. Never use wire guys with this antenna.

You can use many methods to create a ground anchor. At most ACE hardware stores or mobile home supply places, you can find ground tie down devices. These just screw into the ground.

As far as wind survival, I have had no problem in winds at least to 65+ with my Hex-Beam although I have 3 sets of guys due to the installation situation.

73,
Barry - W4WB

1050. Re: [hex-beam] Re: Considering....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-13 21:27:11 UTC
From: b3s7a00@aol.com
Topic: 1043 Message: 1050

just out of curiosity, what is the specific reason metalic guys cant be used?

[Non-text portions of this message have been removed]

1051. Re: Considering....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-13 21:33:13 UTC
From: w4wb
Topic: 1043 Message: 1051

--- In hex-beam@y..., b3s7a00@a... wrote:
> just out of curiosity, what is the specific reason metalic guys
cant be used?
>

Interacts with the antenna even if you break the lengths up as
discussed in the ARRL Antenna Book.

73,
Barry - W4WB

1052. Re: [hex-beam] Re: Considering....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-13 21:42:30 UTC
From: b3s7a00@aol.com
Topic: 1043 Message: 1052

ok tnx

[Non-text portions of this message have been removed]

1053. Consider... THANKS!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-14 02:48:57 UTC
From: Jason Hissong
Topic: 1053 Message: 1053

Guys,

Thanks for your recommendations. I talked to the XYL and it appears that she has given me her "blessing" to use a Glen Martin Roof Mounted tower. If I install it on the garage, it will get the Hexbeam up to 40ft. If I put it up on the house, I would get 45ft. Question is, can I install anything above the hexbeam? I will want to install my 2M 11 element beam up there as well.

With this solution, I would not have to guy anything. No concrete or the hassle of digging holes!

My choice is down to the Hexbeam and the Force 12 C3SS. Help me make my decision guys ;-)

Thanks! If I end up getting the Hexbeam, I will definately post my pictures.

Jason Hissong
N8XE

I definately would like to do a sched with someone. Especially doing A/B comparisons with a Hexbeam up at 40 feet compared to maybe a dipole of vertical. Email me direct as it seems that I don't get these messages sent to my email address (even though I have it set to do so... hmmm)

1054. Re: Consider... THANKS!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-14 03:14:14 UTC
From: w4wb
Topic: 1053 Message: 1054

Jason,

Good choiceon mounting. Height is FB. It is not practical to mount the 2 m array above the Hex-Beam unless you use none conductive mast and make a fixture to allow the HB to be offset a bit to allow the other mast to rise up. Hope that made sense. Ask Mike for ideas.

I know a fellow in EA8-land that had a C3SS and talked to me a long time about the HB, made F/B, F/S, etc. OTA measurements. He decided to replace his C3SS with a HB.

73,
Barry - W4WB

--- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> Guys,
>
> Thanks for your recommendations. I talked to the XYL and it appears
> that she has given me her "blessing" to use a Glen Martin Roof
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>
> Jason Hissong
> N8XE
>
> I definately would like to do a sched with someone. Especially
> doing A/B comparisons with a Hexbeam up at 40 feet compared to maybe
> a dipole of vertical. Email me direct as it seems that I don't get
> these messages sent to my email address (even though I have it set
> to do so... hmmm)

1055. Can anyone solve this mistery?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-14 11:49:50 UTC
From: Makoto Tanaka
Topic: 1055 Message: 1055

Can anyone help my friend who is using HX-5Bi in Western Japan.
He has been concerned about high SWR in 12 and 10 meters (Other
bands are quite OK). He put down his antenna and checked SWR
with MFJ-259 by terminating with non-inductive register in each
element connecting point (prior to this, he confirmed that the
non-inductive register is 1.0 SWR with MFJ-259). Then he measured
SWR at feedpoint, he observed that the SWR above 15 meters increased
say, when he terminated at 20 meter connecting points, SWR at 14MHz
is 1.05 and 1.3 at 28MHz, when he terminated at 10 meter element
connecting points, SWR is 1.1 at 14MHz and 1.5 at 28MHz.
I am not a technical person and not sure if he is doing right thing
(theoretically, SWR should be 1.0 in this case for entire bands?).
Anybody helps me?

73 - JR1NHD Shin

1056. Re: [hex-beam] Consider... THANKS!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-14 14:07:11 UTC
From: Ed Fox
Topic: 1053 Message: 1056

Jason,
I'd be happy to have a qso with you just name a time and freq. I live in Southern Minnesota and can give you comparisons from both my hexbeam and G5RV antennas. 73's, Ed, N0OQ.

>From: "Jason Hissong" <jhisson1@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] Consider... THANKS!!
>Date: Mon, 14 Oct 2002 02:48:57 -0000
>
>Guys,
>
>Thanks for your recommendations. I talked to the XYL and it appears
>that she has given me her "blessing" to use a Glen Martin Roof
>Mounted tower. If I install it on the garage, it will get the
>Hexbeam up to 40ft. If I put it up on the house, I would get 45ft.
>Question is, can I install anything above the hexbeam? I will want
>to install my 2M 11 element beam up there as well.
>
>With this solution, I would not have to guy anything. No concrete
>or the hassle of digging holes!
>
>My choice is down to the Hexbeam and the Force 12 C3SS. Help me
>make my decision guys ;-)
>
>Thanks! If I end up getting the Hexbeam, I will definately post my
>pictures.
>
>Jason Hissong
>N8XE
>
>I definately would like to do a sched with someone. Especially
>doing A/B comparisons with a Hexbeam up at 40 feet compared to maybe
>a dipole of vertical. Email me direct as it seems that I don't get
>these messages sent to my email address (even though I have it set
>to do so... hmmm)
>

_____
Send and receive Hotmail on your mobile device: http://mobile.msn.com

1057. HexBeam for 40 meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-14 17:17:42 UTC
From: RadioN1IX@aol.com
Topic: 1057 Message: 1057

I am so pleased with my HX5Bi that I am thinking of homebrewing a hexbeam for 40 meters. I am currently using a full wave loop which works well but has no directivity or F/B. I am assuming that I can take the 20 meter dimensions and double everything. Has anyone tried this? What can I use for spreaders? I was thinking of small diameter PVC.
Dave N1IX

1058. Got one!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-14 23:20:21 UTC
From: Jason Hissong
Topic: 1058 Message: 1058

Hi guys,

Just wanted to post to the list that I bought the HX5Bi today. Called Mike (great guy) and we talked about the antenna. After talking with him, I went ahead and gave him my CC number and I have a Hex beam heading my way this week!

My primary reason for buying it was Mike allowing me to buy it and then return it in 30 days. That makes me feel great about my purchase. Low risk. I was not able to get that kind of service from previous antenna (or amatuer radio vendors in general) Plus, thanks to Doug, W6HB, I was able to get some good comparisons between a similar antenna to my dipole. And it was enough to sell me. Looking forward to keeping you up to date of my progress (on my web site http://www.qsl.net/n8xe)... thanks again guys!!!

73,
Jason Hissong
N8XE

1059. Interaction with other antennas

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-16 02:33:43 UTC
From: Jason Hissong
Topic: 1059 Message: 1059

Hello Again guys,

I will be installing the Hexbeam on either a 17.5' or 26' roof mount tower. I was thinking of installing my dipole in an inverted V using the tower as a support for the center portion of the dipole. My question is how much interaction will happen between the hex beam and the dipole? Also, if I want to install a 6 meter (or 2 meter) version of a hex beam, would any interaction happen with them? (I would be installing the smaller beam(s) with a TV rotor on the roof.

Thanks!

Jason Hissong
N8XE

1060. A bamboo hex project

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-16 07:29:30 UTC
From: Bud Mortenson
Topic: 1060 Message: 1060

Hello everyone. I have been reading posts in this group for a long time. It has all been very interesting and helpful. I have been building a hex-style antenna for ages, and I can now share what I did, and how it has worked out.

You will find the complete story in the Files section -- look for the Word (or WordPad) .doc in the VE7ASK folder.

http://groups.yahoo.com/group/hex-beam/files/VE7ASK/

Below, is a summarized version with lots info and anecdotes chopped out. After all, most people don't want to wade through 5,000 words of construction and installation details. I tried to leave enough in to give you a sense of the project, and the results. But the full version has much, much more detail.

Hope this helps someone build a hex, or decide to buy one of Mike Traffie's commercial, ready-to-go models that will work properly right out of the box. I am convinced this is the best antenna for its size, weight, visual impact, cost, and installation requirements.

I will keep you posted as things progress from here.

73, and thanks again for all the info you have provided me since last spring.

-- Bud, VE7ASK

==========

The Bamboo Hex

In 10 Easy Steps (and Several Not-So-Easy Ones)

NOTE: This is a short version of the story. For the whole story, read the document Bamboo Hex.doc:
http://groups.yahoo.com/group/hex-beam/files/VE7ASK/

For accompanying photos, see the VE7ASK folder
in the Photos section of this Yahoo! Group.
http://photos.groups.yahoo.com/group/hex-beam/lst

In March 2002 I started planning the construction of a five-band hex-style beam. Thanks to homebrew inspiration from VK2DPD, DL7IO, AA5HP and others, and Mike Traffie's outstanding concept and pioneering work, I managed to cobble together all the parts and have something that now radiates from just a few feet above the roof.

This is a home-made five-band antenna made from bits of bamboo, some hose clamps, a few wires, and lots of hours of puzzling, building and -- at last -- huge satisfaction.

Please note that I consider this a "hex-style" antenna. I don't want to call it a "Hexbeam" as it is a pale imitation of Mike Traffie's real antenna.

This year, I have been bitten by the contesting bug. G5RV antennas are great for casual operating, but they don't put you in the top half for many contests. I wanted something very cheap with at least a little gain that can be generally pointed at stations but doesn't need a tower (one day, I tell myself). The hex-style antenna met those requirements perfectly.

As the fall and winter contests continue, I will be able to tell if the hex makes a difference in my scores.

Does It "Play?"
==========
Be assured that this antenna CAN be built and WILL work. It is often quieter than my trapped vertical and my low G5RV at 28 feet. It definitely has gain on all upper HF bands, and is quite directional. Front-to-back rejection on my homebrew version is OK, but I'm more interested in forward gain than QRM rejection at this QTH. I figure if I have to worry much about QRM off the back, I'm lucky to have it, hi.

Signals in the hex's direction on 20M are often markedly stronger than on my G5RV, and readability is much better thanks to the lower noise.

Claims Sure to Get Me In Trouble With Experts
==========

After the antenna was on its mast, (Canadian Thanksgiving Day, October 15, 2002), with the 20M element at about 25 feet above ground, I worked SM2CEW and we actually had a CW ragchew in the middle of the afternoon -- the first time in years that I have managed that with a DX station on 20M (me: 579, him: a very solid 599 -- yet Peter was, generously, S-5 with the G5RV). I also worked East Malaysia on 20M. Got him with my first call, before the rotator was plugged in. Down in the mud on the G5RV, but he was peaking S-9 on the Hex.

After installation, the log looks like this:

Date-Z RX kHz Mode Call RST S RST R QTH & Notes

14-Oct 14042.6 CW 9M6AAC 599 599 East Malaysia
14-Oct 14026.4 CW SM2CEW 579 599 Lulea, Sweden 100w hex
15-Oct 18073.0 CW FO0PT 559 559 Moorea 50W hex
16-Oct 14024.4 CW J75EA 599 599 Dominica 100w hex pileup

16-Oct 21023.2 CW FO0PT 559 599 Moorea hex 50w 1st call

Let's try the antenna in real-time. Unscripted. Let me run to the rig and see what I can work on 20M right now (10:20 p.m. local, Oct 16, 2002). Be back in a sec....

OK, took less than five minutes to find and work FO0PT on 14.044 at 5:24Z. That's Moorea, French Polynesia, on three bands in two days with the hex. We were only 559 both ways this time, but made it work -- first call as he changed from simplex to QRX up 1. The hex was only about 1 S-unit over the G5RV for that QSO, which is only a "so what?" if you don't care about S-units.

I have done lots of quick A-B comparisons between the Hex and the low G5RV (doublet, 102 feet). Depending on where the Hex is pointed, I have seen a full 4 S-units (from S-3 to S-7 or more) difference in favour of the Hex. Some signals all but disappear when switching from the Hex to the doublet. And, honestly, some signals are better on the doublet (can't turn it, though).

This may only be a compromise two-element beam, but it really is a dramatic improvement over all the other wire antennas I have built. It's not always exhibited, but when the conditions favor this antenna it is stronger than I thought it would or should be, even at my below-optimum height of 25 feet at the 20M element.

Now, let's get into the construction effort....

Getting the Parts
==========

I actually ended up building three "beta" versions of the antenna, before the present version. The cost of the latest one was (in Canadian dollars):

$24 for the bamboo spreaders (12 x $2)
$18 for hose ("gear") clamps (3/4" for wire points, 1 1/2" for spreader joints)
$ 3 for the hub (pre-cut 1 1/2-foot circle of 1" plywood)
$10 for the U-bolts in hub
$ 2 for the 4-foot center pole (1 1/2" schedule 40 PVC)
$24 for a spool of wire (16-guage speaker wire)
$ 8 for a 400' spool of nylon mason's line
$ 5 for brass screws and nuts
===
$94

All of the above was or can be purchased from Home Depot. In truth, I've spent around $150 on parts, including now-discarded materials for all the failed versions of the antenna.

Things I Tried But Discarded
==========

I tried using 1/2-inch PVC pipe and short sections of dowel to stiffen the PVC for the first few feet, but when tension was applied these spreaders tended to form "S" bends.

I "bend tested" some 10-foot pieces of dowel at the hardware store when no one was looking. They made a bit of a crackling sound at about two feet of arc. I purchased the two I tested (see the previous paragraph), but I didn't want to spend $7 each for six of them only to have them snap when I strung the wires.

Next, I tried using six-foot lengths of thin bamboo stakes -- the "green" painted type from a garden center. Strapped together with hose clamps, these spreaders worked a bit but were still a bit too flexible and tended to arc too much to get the right shape.

Combining the PVC with the thin bamboo didn't work at all, so I started over.

I finally went to much stiffer five and a half-foot lengths of yellow bamboo -- approximately 1/2-inch diameter or slightly larger -- and joined with hose clamps where four or five inches overlapped. I worried that spreaders just 10 feet long would be too short, but I ended up cutting a foot off them anyway, after the wires were strung.

The antenna goes together fairly quickly once the parts are on hand. I know I reinvented the wheel several times, and learned some tricks that I want to pass on to others. The construction details are a very long bit of text, but I know I would have appreciated a step-by-step tutorial when I started out.

Please see the Word .doc in the Files/VE7ASK folder for complete construction details.
http://groups.yahoo.com/group/hex-beam/files/VE7ASK/

The construction story is divided into these sections:

The Center Hub
The Center Pipe Bolts
Assembling the Hub
The Feedline
The Spreaders
Starting the Bendy Part of the Job
The Wire Elements
The Smarter Way
Feeding This Baby
Turning Things Around
Putting It On the Roof
Next Time

Your Mileage May Vary
==========
In describing my antenna project, I have tried to be very honest

about corners I've cut, and things I would and will do differently. Maybe one of these days I'll be able to report the final final results, but I wanted to post as much info as possible for anyone else thinking of building one of these.

Although I am pleased with what I've built so far, I think I got lucky with my element pruning. The results of YOUR hex-style beam will probably be even better. And my results will only get better as I work on it or build the next version.

My project shows that a hex-style beam can be built using very cheap materials -- bamboo sticks and plywood. It won't last for years without frequent care, but it's very sturdy. Twice, wind storms blew over my lousy test stand (two and a half concrete blocks and a bit of 6" PVC). Both times, the antenna fell from 14 feet. The spreaders hit the ground and a fence without a scratch. The thing weighs 20 pounds or less, and seems to love the wind.

If you don't have seven months and two young sons to help build one, then definitely buy one. Either way, I don't think you will regret it.

Thank you for reading, and please let us all know how your own project is going!

73,

Bud Mortenson, VE7ASK
ve7ask@...

1061. Another Homebrew Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-16 09:57:03 UTC
From: David P Douglass
Topic: 1061 Message: 1061

Hi Bud,

Very well done, enjoyed the article and pictures and looks great. It's really good to see someone else using a little more wood in their antennas! I've always felt it gets a really bad press which is totally unwarranted. I've had a total of 4 wooden beams up over the last 4 years and never had a problem yet (with the wooden parts anyway!)

Your log insert is interesting and I would say that at least some of your success is due to the preference of the 'Best Mode'. I would have to say that without a doubt, using CW has been the single biggest factor in bumping up my DXCC tally.

Anyway, good to have you amongst us Bud and look forward to working you in the biggy (CQ WW) at the end of November.

Regards

David, VK2DPD

1062. Re: [hex-beam] A bamboo hex project

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-16 11:41:21 UTC
From: Boian Petkov
Topic: 1060 Message: 1062

Hi Bud,
congratulations for your home made Hex!
I would like to share some note for the home brewers, who want to use insulated wire. I've had built a 28MHz monoband Hex and a 80/40/30m vertical during the summer. I used #14 gauge insulated speaker cable and I found out that the Velocity Factor is 0,954. For both antennas I had:
design Freq real resonance
28.300 27.000
10.110 9.700
3.650 3.500
My Vertical is working pretty well on 10m band too, so I did some A-B comparisons.
On RX front direction Hex have 2-3S over the vertical.
On side direction they are equal and on back direction vertical is 0-1S better.
On TX front direction Hex is 2-5 S better, on side and back both antennas are equal.
The vertical is 10m long, installed at the garden, the Hex was put on top of the roof of 2 flat house.
Now the Hex is removed, a 6m mast is installed, so when weather permit I will pickup a 5 Band Hex.

73 de Bob, LZ2BE

--- Bud Mortenson <ve7ask@...> wrote:
> Hello everyone. I have been reading posts in this
> group for a long
> time. It has all been very interesting and helpful.
> I have been
> building a hex-style antenna for ages, and I can now
> share what I
> did, and how it has worked out.
>

=== message truncated ===

_____
Do you Yahoo!?
Faith Hill - Exclusive Performances, Videos & More
http://faith.yahoo.com

1063. Re: A bamboo hex project

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-16 15:18:37 UTC
From: w6hb
Topic: 1060 Message: 1063

Fantastic job, Bud, and best write up yet seen. The great news is
that this simple concept seems to work well in one version or another
for just about everyone who trys it. 73 - Doug - W6HB

--- In hex-beam@y..., "Bud Mortenson" <ve7ask@r...> wrote:
> Hello everyone. I have been reading posts in this group for a long
> time. It has all been very interesting and helpful. I have been
> building a hex-style antenna for ages, and I can now share what I
> did, and how it has worked out.
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> You will find the complete story in the Files section -- look for
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> Word (or WordPad) .doc in the VE7ASK folder.
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> http://groups.yahoo.com/group/hex-beam/files/VE7ASK/
>
> Below, is a summarized version with lots info and anecdotes chopped
> out. After all, most people don't want to wade through 5,000 words
of
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to
> give you a sense of the project, and the results. But the full
> version has much, much more detail.
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> Hope this helps someone build a hex, or decide to buy one of Mike
> Traffie's commercial, ready-to-go models that will work properly
> right out of the box. I am convinced this is the best antenna for
its
> size, weight, visual impact, cost, and installation requirements.
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> I will keep you posted as things progress from here.
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> 73, and thanks again for all the info you have provided me since
last
> spring.
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> -- Bud, VE7ASK
>
>
> ================================
>
> The Bamboo Hex
>
> In 10 Easy Steps (and Several Not-So-Easy Ones)
>

> NOTE: This is a short version of the story. For the whole story,
> read the document Bamboo Hex.doc:
> http://groups.yahoo.com/group/hex-beam/files/VE7ASK/
>
> For accompanying photos, see the VE7ASK folder
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> http://photos.groups.yahoo.com/group/hex-beam/lst
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> In March 2002 I started planning the construction of a five-band
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> style beam. Thanks to homebrew inspiration from VK2DPD, DL7IO,
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> and others, and Mike Traffie's outstanding concept and pioneering
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> that now radiates from just a few feet above the roof.
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> This is a home-made five-band antenna made from bits of bamboo,
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> hose clamps, a few wires, and lots of hours of puzzling, building
> and -- at last -- huge satisfaction.
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> the ground and a fence without a scratch. The thing weighs 20
pounds
> or less, and seems to love the wind.
>
> If you don't have seven months and two young sons to help build
one,
> then definitely buy one. Either way, I don't think you will regret
it.
>
> Thank you for reading, and please let us all know how your own
> project is going!
>
> 73,
>
> Bud Mortenson, VE7ASK
> ve7ask@r...

1064. Wind survival

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-16 20:10:19 UTC
From: Eric Carling
Topic: 1064 Message: 1064

The first storm my Hexbeam had to weather turned out to be a force 9 gale with winds between 60 to 90 mph.
I lost 2 out 3 vhf/uhf antennas but the Hexbeam, though obviously being severely buffeted, was undamaged.

This aspect of the design is already known from the 3Y0C experience but thought I'd mention it for anyone who
didn't read that report and is considering a Hex now.

Eric G0CGL.

[Non-text portions of this message have been removed]

1065. Re: [hex-beam] Wind survival

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-16 20:24:01 UTC
From: RadioN1IX@aol.com
Topic: 1064 Message: 1065

We are having strong winds (not gale force) now on the New Hampshire coast.
My hexbeam isn't even moving.

Dave N1IX

In a message dated 10/16/2002 4:12:12 PM Eastern Daylight Time,
g0cg1@... writes:

<< The first storm my Hexbeam had to weather turned out to be a force 9 gale
with winds between 60 to 90 mph.
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severely buffeted, was undamaged.

This aspect of the design is already known from the 3Y0C experience but
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Eric G0CGL.

[Non-text portions of this message have been removed]
>>

1066. Re: A bamboo hex project

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-16 21:34:54 UTC
From: on4ccw
Topic: 1060 Message: 1066

--- In hex-beam@y..., "Bud Mortenson" <ve7ask@r...> wrote:
hi Bud, good job. I also made mine out of bamboo (1,5 inch at the thikest point) and it works fine. On one band i also have a slight assymetric form of the wires , but not so much. As the bamboo is a bit thicker then yours , looking at the wires horizontally , they are slightly in a V shape (radiators and reflectors in the same way)
The bamboe should bent a bit more then it does now.
There is one suggestion i have for the homebrewers : at the end of the wires , i did not cut them but bended them around a bolt;it is a bit possible to see in my fotosection. I don't know how the material is called , but we use it over here to fix metal wires on eachother .)This way you can always make them longer if you want to.
Secondly , my swr is very low (see olso in my file map) and i think the reason is the use of metal thick plates on the hub for the connection of the wires onto the hub. I could be wrong ofcourse, if anyone thinks differently, please let me know ;-)
at last i have my soulmate !!!painting the house or making antennas!!!Well , i did both... (one with more pleasure then the other...:-( )
btw, thanks David and Holger for your help, as you can see you inspire people (instead of letting them perform there domestic obligations... ;-)
Peter
ON4CCW
PS where was everyone this saterday at 18h00 UTC?

> Hello everyone. I have been reading posts in this group for a long
> time. It has all been very interesting and helpful. I have been
> building a hex-style antenna for ages, and I can now share what I
> did, and how it has worked out.
>
> You will find the complete story in the Files section -- look for
the
> Word (or WordPad) .doc in the VE7ASK folder.
>
> http://groups.yahoo.com/group/hex-beam/files/VE7ASK/
>
> Below, is a summarized version with lots info and anecdotes
chopped
> out. After all, most people don't want to wade through 5,000 words
of
> construction and installation details. I tried to leave enough in
to
> give you a sense of the project, and the results. But the full
> version has much, much more detail.

>
> Hope this helps someone build a hex, or decide to buy one of Mike
> Traffie's commercial, ready-to-go models that will work properly
> right out of the box. I am convinced this is the best antenna for
its
> size, weight, visual impact, cost, and installation requirements.
>
> I will keep you posted as things progress from here.
>
> 73, and thanks again for all the info you have provided me since
last
> spring.
>
> -- Bud, VE7ASK
>
>
> ==========
>
> The Bamboo Hex
>
> In 10 Easy Steps (and Several Not-So-Easy Ones)
>
> NOTE: This is a short version of the story. For the whole story,
> read the document Bamboo Hex.doc:
> http://groups.yahoo.com/group/hex-beam/files/VE7ASK/
>
> For accompanying photos, see the VE7ASK folder
> in the Photos section of this Yahoo! Group.
> http://photos.groups.yahoo.com/group/hex-beam/lst
>
> In March 2002 I started planning the construction of a five-band
hex-
> style beam. Thanks to homebrew inspiration from VK2DPD, DL7IO,
AA5HP
> and others, and Mike Traffie's outstanding concept and pioneering
> work, I managed to cobble together all the parts and have
something
> that now radiates from just a few feet above the roof.
>
> This is a home-made five-band antenna made from bits of bamboo,
some
> hose clamps, a few wires, and lots of hours of puzzling, building
> and -- at last -- huge satisfaction.
>
> Please note that I consider this a "hex-style" antenna. I don't
want
> to call it a "Hexbeam" as it is a pale imitation of Mike Traffie's
> real antenna.
>
> This year, I have been bitten by the contesting bug. G5RV antennas

> are great for casual operating, but they don't put you in the top
> half for many contests. I wanted something very cheap with at
least a
> little gain that can be generally pointed at stations but doesn't
> need a tower (one day, I tell myself). The hex-style antenna met
> those requirements perfectly.
>
> As the fall and winter contests continue, I will be able to tell
if
> the hex makes a difference in my scores.
>
> Does It "Play?"
> ===============
> Be assured that this antenna CAN be built and WILL work. It is
often
> quieter than my trapped vertical and my low G5RV at 28 feet. It
> definitely has gain on all upper HF bands, and is quite
directional.
> Front-to-back rejection on my homebrew version is OK, but I'm more
> interested in forward gain than QRM rejection at this QTH. I
figure
> if I have to worry much about QRM off the back, I'm lucky to have
it,
> hi.
>
> Signals in the hex's direction on 20M are often markedly stronger
> than on my G5RV, and readability is much better thanks to the
lower
> noise.
>
> Claims Sure to Get Me In Trouble With Experts
> ==
>
> After the antenna was on its mast, (Canadian Thanksgiving Day,
> October 15, 2002), with the 20M element at about 25 feet above
> ground, I worked SM2CEW and we actually had a CW ragchew in the
> middle of the afternoon -- the first time in years that I have
> managed that with a DX station on 20M (me: 579, him: a very solid
> 599 -- yet Peter was, generously, S-5 with the G5RV). I also
worked
> East Malaysia on 20M. Got him with my first call, before the
rotator
> was plugged in. Down in the mud on the G5RV, but he was peaking S-
9
> on the Hex.
>
> After installation, the log looks like this:
>
> Date-Z RX kHz Mode Call RST S RST R QTH & Notes
> ---

>
> 14-Oct 14042.6 CW 9M6AAC 599 599 East Malaysia
> 14-Oct 14026.4 CW SM2CEW 579 599 Lulea, Sweden 100w hex
> 15-Oct 18073.0 CW FO0PT 559 559 Moorea 50W
hex
> 16-Oct 14024.4 CW J75EA 599 599 Dominica 100w hex
pileup
> 16-Oct 21023.2 CW FO0PT 559 599 Moorea hex 50w 1st
call
>
> Let's try the antenna in real-time. Unscripted. Let me run to the
rig
> and see what I can work on 20M right now (10:20 p.m. local, Oct
16,
> 2002). Be back in a sec....
>
> OK, took less than five minutes to find and work FO0PT on 14.044
at
> 5:24Z. That's Moorea, French Polynesia, on three bands in two days
> with the hex. We were only 559 both ways this time, but made it
work -
> - first call as he changed from simplex to QRX up 1. The hex was
only
> about 1 S-unit over the G5RV for that QSO, which is only a "so
what?"
> if you don't care about S-units.
>
> I have done lots of quick A-B comparisons between the Hex and the
low
> G5RV (doublet, 102 feet). Depending on where the Hex is pointed, I
> have seen a full 4 S-units (from S-3 to S-7 or more) difference in
> favour of the Hex. Some signals all but disappear when switching
from
> the Hex to the doublet. And, honestly, some signals are better on
the
> doublet (can't turn it, though).
>
> This may only be a compromise two-element beam, but it really is a
> dramatic improvement over all the other wire antennas I have
built.
> It's not always exhibited, but when the conditions favor this
antenna
> it is stronger than I thought it would or should be, even at my
below-
> optimum height of 25 feet at the 20M element.
>
> Now, let's get into the construction effort....
>
> Getting the Parts
> ==========

>
> I actually ended up building three "beta" versions of the antenna,
> before the present version. The cost of the latest one was (in
> Canadian dollars):
>
> $24 for the bamboo spreaders (12 x $2)
> $18 for hose ("gear") clamps (3/4" for wire points, 1 1/2" for
> spreader joints)
> $ 3 for the hub (pre-cut 1 1/2-foot circle of 1" plywood)
> $10 for the U-bolts in hub
> $ 2 for the 4-foot center pole (1 1/2" schedule 40 PVC)
> $24 for a spool of wire (16-guage speaker wire)
> $ 8 for a 400' spool of nylon mason's line
> $ 5 for brass screws and nuts
> ===
> $94
>
> All of the above was or can be purchased from Home Depot. In
truth,
> I've spent around $150 on parts, including now-discarded materials
> for all the failed versions of the antenna.
>
> Things I Tried But Discarded
> ==========
> I tried using 1/2-inch PVC pipe and short sections of dowel to
> stiffen the PVC for the first few feet, but when tension was
applied
> these spreaders tended to form "S" bends.
>
> I "bend tested" some 10-foot pieces of dowel at the hardware store
> when no one was looking. They made a bit of a crackling sound at
> about two feet of arc. I purchased the two I tested (see the
previous
> paragraph), but I didn't want to spend $7 each for six of them
only
> to have them snap when I strung the wires.
>
> Next, I tried using six-foot lengths of thin bamboo stakes --
> the "green" painted type from a garden center. Strapped together
with
> hose clamps, these spreaders worked a bit but were still a bit too
> flexible and tended to arc too much to get the right shape.
>
> Combining the PVC with the thin bamboo didn't work at all, so I
> started over.
>
> I finally went to much stiffer five and a half-foot lengths of
yellow
> bamboo -- approximately 1/2-inch diameter or slightly larger --
and

> joined with hose clamps where four or five inches overlapped. I
> worried that spreaders just 10 feet long would be too short, but I
> ended up cutting a foot off them anyway, after the wires were
strung.
>
> The antenna goes together fairly quickly once the parts are on
hand.
> I know I reinvented the wheel several times, and learned some
tricks
> that I want to pass on to others. The construction details are a
very
> long bit of text, but I know I would have appreciated a step-by-
step
> tutorial when I started out.
>
> Please see the Word .doc in the Files/VE7ASK folder for
> complete construction details.
> http://groups.yahoo.com/group/hex-beam/files/VE7ASK/
>
> The construction story is divided into these sections:
>
> The Center Hub
> The Center Pipe Bolts
> Assembling the Hub
> The Feedline
> The Spreaders
> Starting the Bendy Part of the Job
> The Wire Elements
> The Smarter Way
> Feeding This Baby
> Turning Things Around
> Putting It On the Roof
> Next Time
>
>
> Your Mileage May Vary
> ==========
> In describing my antenna project, I have tried to be very honest
> about corners I've cut, and things I would and will do
differently.
> Maybe one of these days I'll be able to report the final final
> results, but I wanted to post as much info as possible for anyone
> else thinking of building one of these.
>
> Although I am pleased with what I've built so far, I think I got
> lucky with my element pruning. The results of YOUR hex-style beam
> will probably be even better. And my results will only get better
as
> I work on it or build the next version.
>

> My project shows that a hex-style beam can be built using very
cheap
> materials -- bamboo sticks and plywood. It won't last for years
> without frequent care, but it's very sturdy. Twice, wind storms
blew
> over my lousy test stand (two and a half concrete blocks and a bit
of
> 6" PVC). Both times, the antenna fell from 14 feet. The spreaders
hit
> the ground and a fence without a scratch. The thing weighs 20
pounds
> or less, and seems to love the wind.
>
> If you don't have seven months and two young sons to help build
one,
> then definitely buy one. Either way, I don't think you will regret
it.
>
> Thank you for reading, and please let us all know how your own
> project is going!
>
> 73,
>
> Bud Mortenson, VE7ASK
> ve7ask@r...

1067. STUFF

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-16 21:09:44 UTC
From: Andrea & Chuck Bridges
Topic: 1067 Message: 1067

1. I just put up my Hex-Beam HX-5Bi in time for the CQ WW RTTY Contest. I installed it on a HDX-30 mast on top of a ground mounted Yaesu G-800DXA rotator, so it's up about 26 feet. Construction of the antenna was straightforward. Since this is my first complex antenna installation, I fretted over the guying of the mast. I used 3/16" dacron and stainless steel quick links and turnbuckles. Everything is great, so far!

RTTY is not a mode that I have much experience with, but I decided to give the antenna a try during the contest. Prior to the contest, using a ground mounted GAP Challenger (a great antenna in its own right) and 100 watts SSB and 35 watts BPSK, I had worked 100 countries over a period of about 18 months. During the contest period I worked an additional 15 countries, just playing on the sidelines.

2. Thanks, Bud, VE7ASK for your descriptions. I have only home-brewed one antenna -- a three element wire Yagi for ten meters -- based on an article in QST. I think I may try some more home brewing, now!

73!

Chuck Bridges, AK6DV

1068. First Hexbeam to Hexbeam QSO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-21 02:08:56 UTC
From: Jason Hissong
Topic: 1068 Message: 1068

Hi guys,

Thanks to Doug, W6HB, I had my first Hexbeam to Hexbeam QSO. There was definately a difference between the dipole and the Hexbeam. I would say an S unit or two. Oh yea, the Hexbeam is at 8' and the dipole at 30'. Both the dipole and the Hexbeam were pointed the same direction. The Hexbeam was also beaming through a tree and power lines. Not bad at all!! Cannot wait to hear what this thing does when I finally get it to 30'.

Thanks again guys... looking forward to many more Hexbeam contacts!!

Jason Hissong
N8XE

1069. Re: First Hexbeam to Hexbeam QSO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-21 02:17:07 UTC
From: w6hb
Topic: 1068 Message: 1069

Gee Jason. My log shows you now have 2 points toward your
HXCC. 73 - Doug - W6HB

--- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> Hi guys,
>
> Thanks to Doug, W6HB, I had my first Hexbeam to Hexbeam QSO. There
was
> definately a difference between the dipole and the Hexbeam. I
would say an
> S unit or two. Oh yea, the Hexbeam is at 8' and the dipole at
30'. Both
> the dipole and the Hexbeam were pointed the same direction. The
Hexbeam was
> also beaming through a tree and power lines. Not bad at all!!
Cannot wait
> to hear what this thing does when I finally get it to 30'.
>
> Thanks again guys... looking forward to many more Hexbeam contacts!!
>
> Jason Hissong
> N8XE

1070. Re: [hex-beam] Re: First Hexbeam to Hexbeam QSO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-21 02:27:17 UTC
From: Jason Hissong
Topic: 1068 Message: 1070

I forgot about the ham in WA! He had a Hexbeam. I think I may have to hop
on the Hexbeam net here very soon...

73
Jason - N8XE
----- Original Message -----
From: "w6hb" <w6hb@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, October 20, 2002 10:17 PM
Subject: [hex-beam] Re: First Hexbeam to Hexbeam QSO

> Gee Jason. My log shows you now have 2 points toward your
> HXCC. 73 - Doug - W6HB
>
>
>
> --- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> > Hi guys,
> >
> > Thanks to Doug, W6HB, I had my first Hexbeam to Hexbeam QSO. There
> was
> > definately a difference between the dipole and the Hexbeam. I
> would say an
> > S unit or two. Oh yea, the Hexbeam is at 8' and the dipole at
> 30'. Both
> > the dipole and the Hexbeam were pointed the same direction. The
> Hexbeam was
> > also beaming through a tree and power lines. Not bad at all!!
> Cannot wait
> > to hear what this thing does when I finally get it to 30'.
> >
> > Thanks again guys... looking forward to many more Hexbeam contacts!!
> >
> > Jason Hissong
> > N8XE
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>

>
>

1071. Bamboo hex in first contest

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-21 06:05:56 UTC
From: ve7ask
Topic: 1071 Message: 1071

Hello all. Thanks to those who wrote with comments and encouragement after my first post. I'm making notes, and it's all going to help with the next edition of my bamboo hex.

Thought I would update you on how the hex is working on its 20-foot push-up mast. I operated in the JARTS RTTY contest this weekend and managed 321 QSOs. My highest QSO total from home for any contest (DX, one- or two-day, CW, RTTY, or other) until now was around 230.

From southern British Columbia, this weekend I worked 29 countries with 80W-100W RTTY including the following (the 3.5 and 7 mhz contacts were on a G5RV):

Number of contacts per band

Entity	3.5	7	14	21	28	all
CN	-	-	-	2	-	2
DL	-	-	-	1	-	1
EA9	-	-	-	1	-	1
EU	-	-	-	1	-	1
FJ	-	-	1	-	-	1
FO	-	-	1	-	-	1
GW	-	-	-	1	-	1
HL	-	-	-	-	1	1
HP	-	-	1	-	-	1
KH2	-	-	1	1	1	3
KH6	1	2	3	3	2	11
KH8	-	-	-	1	-	1
KL7	-	-	1	-	-	1
OH	-	-	2	-	-	2
OK	-	-	1	-	-	1
SM	-	-	1	2	-	3
SP	-	-	3	-	-	3
UA/AS	-	-	2	1	-	3
UA/EU	-	-	4	1	-	5
UN	-	-	1	-	-	1
UR	-	-	1	2	-	3
VR2	-	-	1	-	1	2
XE	-	-	-	-	2	2
YL	-	-	-	1	-	1
ZL	-	-	1	1	1	3

Note: until I put up the hex, I had never even HEARD Morocco (CN8) or Melilla (EA9), but worked them both within hours of one another. Propagation into Europe was rather marginal during the contest, but I still did better than I would have with the G5RV.

I worked 90 JA stations, and 155 stateside stations -- including all call areas on 20M, all but W3 on 15M, and all but W2 on 10M.

All in all, I consider my homebrew hex a great success so far. Will try it out for domestic work in the November Sweepstakes CW contest, and again for its DX capabilities in the CQWW CW test at the end of November.

Thanks again,

73,

Bud, VE7ASK

1072. use for homebrewers

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-21 11:06:17 UTC
From: on4ccw
Topic: 1072 Message: 1072

Hi guys , uploaded some foto's (with a better camera this time) of the construction in full hight and low hight . One of the foto's is a détail of the attachementdevice to connect the wires to the spacingrobe so cutting isn't necessary to adjust and the wire can be made longer if it was shortend to much before. (does anybody understand this??!!)
You also can see the motor i use for putting the antenna up and down (takes 1 minit) In its down position it can servive any storm.
For putting the wires to the spreaders i started from the inside (10 meters) putting a bit if tension on the bamboo , and worked like so to the outside. This way i graduatelly put more and more tension on the spreaders. But as you can see they should bent some more ; they don't but it is very sturdy like that. I'm happy with it results , worked japan, us , canada drom europe and had at least 5/7 reports using 100 watts . not bad for some bamboo and some cupper wires...
Hope it helps someone..
73's
Peter

1073. Bamboo Hex to HB5-i QSO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-21 14:14:33 UTC
From: Makoto Tanaka
Topic: 1073 Message: 1073

Bud,

Thanks for 1st ever Hex to Hex RTTY QSO at
JARTS contest. Your signal was very solid
(and so was mine?). I enjoyed the contest
and made 331 QSOs with this beam.

You have one HXCC point with me. Cong!!

73 - JR1NHD Shin

[Non-text portions of this message have been removed]

1074. Re: First Hexbeam to Hexbeam QSO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-21 19:38:13 UTC
From: Jason Hissong
Topic: 1068 Message: 1074

You know, I just read the HXCC rules and now fully understand what
you meant. I thought you were referring to the ham in WA that talked
with us. Now I see that because I worked you on two different bands,
that means two points. Cool...

Anyways... my tower cannot get put up fast enought.... grrr...

73 de N8XE

Jason

--- In hex-beam@y..., "w6hb" <w6hb@a...> wrote:
> Gee Jason. My log shows you now have 2 points toward your
> HXCC. 73 - Doug - W6HB
>
>
>
> --- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> > Hi guys,
> >
> > Thanks to Doug, W6HB, I had my first Hexbeam to Hexbeam QSO.
There
> was
> > definately a difference between the dipole and the Hexbeam. I
> would say an
> > S unit or two. Oh yea, the Hexbeam is at 8' and the dipole at
> 30'. Both
> > the dipole and the Hexbeam were pointed the same direction. The
> Hexbeam was
> > also beaming through a tree and power lines. Not bad at all!!
> Cannot wait
> > to hear what this thing does when I finally get it to 30'.
> >
> > Thanks again guys... looking forward to many more Hexbeam
contacts!!
> >
> > Jason Hissong
> > N8XE

1075. Re: Bamboo Hex to HB5-i QSO

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-21 19:41:02 UTC
From: ve7ask
Topic: 1073 Message: 1075

Shin, that is great. Thanks for the HXCC point, and the contest points. I wonder if there were others in JARTS this weekend.

-- Bud, VE7ASK

--- In hex-beam@y..., "Makoto Tanaka" <jr1nhd@m...> wrote:
> Bud,
>
> Thanks for 1st ever Hex to Hex RTTY QSO at
> JARTS contest. Your signal was very solid
> (and so was mine?). I enjoyed the contest
> and made 331 QSOs with this beam.
>
> You have one HXCC point with me. Cong!!
>
> 73 - JR1NHD Shin

1076. N8XE Hexbeam Pictures

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-21 22:29:01 UTC
From: Jason Hissong
Topic: 1076 Message: 1076

For anyone that is interested, I have uploaded some pictures of my Hexbeam during assembly and installation on 8' mast. The mast is only temporary until I get the roof tower up. I used to have a vertical mounted there a couple of years ago. I may pick up a vertical to get on 80 and 160 (Butternut). We will see.

Pictures uploaded in the N8XE folder in the photo album.

73 de N8XE
Jason

1077. WOW!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-22 00:35:08 UTC
From: Jason Hissong
Topic: 1077 Message: 1077

Hi gang...

Just worked ZL7C on 15 with the Hexbeam at 8'. Holy cow!

Pretty neat...

Jason
N8XE

1078. design for a 10 or 15 meter hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-22 16:31:26 UTC
From: H. Sawyer
Topic: 1078 Message: 1078

Please help me find a design for a 10 or 15 meter hex beam, as I'm new to the group.

Thanks,

Howard

Do you Yahoo!?
Y! Web Hosting - Let the expert host your web site

[Non-text portions of this message have been removed]

1079. Re: WOW!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-23 00:35:28 UTC
From: tomac14
Topic: 1077 Message: 1079

Hi Jason:

You might want to consider keeping your hexbeam at 8 feet until your
get DXCC, sounds like it's working great at 8 feet. Just kidding!!!

Tom, N0YD "Yankee Doodle"
Another Hexbeamer

--- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> Hi gang...
>
> Just worked ZL7C on 15 with the Hexbeam at 8'. Holy cow!
>
> Pretty neat...
>
> Jason
> N8XE

1080. Re: WOW!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-23 00:35:52 UTC
From: tomac14
Topic: 1077 Message: 1080

Hi Jason:

You might want to consider keeping your hexbeam at 8 feet until your
get DXCC, sounds like it's working great at 8 feet. Just kidding!!!

Tom, N0YD "Yankee Doodle"
Another Hexbeamer

--- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> Hi gang...
>
> Just worked ZL7C on 15 with the Hexbeam at 8'. Holy cow!
>
> Pretty neat...
>
> Jason
> N8XE

1081. Re: [hex-beam] Re: WOW!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-23 00:41:39 UTC
From: Jason Hissong
Topic: 1077 Message: 1081

Tom,

HIHI.... I still cannot believe it. ZL7C. I think it is my farthest
contact to date. I am totally sold on this beam.

Thanks!

Jason Hissong
N8XE
----- Original Message -----
From: "tomac14" <tomac14@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, October 22, 2002 8:35 PM
Subject: [hex-beam] Re: WOW!

> Hi Jason:
>
> You might want to consider keeping your hexbeam at 8 feet until your
> get DXCC, sounds like it's working great at 8 feet. Just kidding!!!
>
> Tom, N0YD "Yankee Doodle"
> Another Hexbeamer
>
>
> --- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> > Hi gang...
> >
> > Just worked ZL7C on 15 with the Hexbeam at 8'. Holy cow!
> >
> > Pretty neat...
> >
> > Jason
> > N8XE
>
>
>
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>
>
>

1082. Re: [hex-beam] design for a 10 or 15 meter hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-23 00:42:11 UTC
From: Jason Hissong
Topic: 1078 Message: 1082

Hi Howard,

You can find some great design notes in the files section of this group.
Let me know if you need assistance finding it...

73 de N8XE
Jason
----- Original Message -----
From: "H. Sawyer" <gdguy21@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, October 22, 2002 12:31 PM
Subject: [hex-beam] design for a 10 or 15 meter hex beam

>
> Please help me find a design for a 10 or 15 meter hex beam, as I'm new to
the group.
>
> Thanks,
>
> Howard
>
>
>
> ---------------------------------
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> [Non-text portions of this message have been removed]
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>
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> hex-beam-unsubscribe@yahoogroups.com
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>
>
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>
>

1083. Re: New poll for hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-23 23:05:39 UTC
From: n6tz
Topic: 406 Message: 1083

Just my opinion on a poll that asks what people think the gain of an antenna is:

It might be one thing to ask "are you happy with the antenna", if you are happy, who is to argue; but to ask what one thinks the gain is from using it is so un-scientific as to make a farce of our licensing structure.

Let's think for a while, the upper H.F. bands are going thru wildly varying conditions in this sun cycle. When you can have 30 or 40 db differences in the same path from day to day, then what is there to compare to? Don't tell me about comparing with the guy down the street that has a Whiz-Bang 40G, because he does not know if his is working correctly or how much his manufacturer lies about it's gain.

Then there is the guy that had nothing but a supper crummy antenna before and then puts up ANY type of beam on a 40 foot tower; he is going to think he "has arrived"!

The truth is that this is a compromised two element antenna that is darn good for the weight and size.....It is NOT a new scientific breakthrough or a super "new age" beyond science developement. Let's all get REAL !!! Remember, we are supposed to know something before we get a license? Or maybe the term AMATEUR is more fitting than I think.

Hal, N6TZ
N6TZ@...

--- In hex-beam@y..., hex-beam@y... wrote:
>
> Enter your vote today! A new poll has been created for the
> hex-beam group:
>
> FOR OWNERS OF THE COMMERCIAL TRAFFIE HX-
> 5B or HX-5Bi:
>
> Based on your "on the air" operating
> experience (not computer modeling) at
> your station, what do you believe the
> gain of your antenna to be?
>
> o 20 meters: Less than 3 dBd
> o 20 meters: 3 dBd
> o 20 meters: 4 dBd
> o 20 meters: 5 dBd

> o 20 meters: Greater than 5 dBd
> o 17 meters: Less than 3 dBd
> o 17 meters: 3 dBd
> o 17 meters: 4 dBd
> o 17 meters: 5 dBd
> o 17 meters: Greater than 5 dBd
> o 15 meters: Less than 3 dBd
> o 15 meters: 3 dBd
> o 15 meters: 4 dBd
> o 15 meters: 5 dBd
> o 15 meters: Greater than 5 dBd
> o 12 meters: Less than 3 dBd
> o 12 meters: 3 dBd
> o 12 meters: 4 dBd
> o 12 meters: 5 dBd
> o 12 meters: Greater than 5 dBd
> o 10 meters: Less than 3dBd
> o 10 meters: 3 dBd
> o 10 meters: 4 dBd
> o 10 meters: 5 dBd
> o 10meters: Greater than 5 dBd
>
>
> To vote, please visit the following web page:
>
> http://groups.yahoo.com/group/hex-beam/surveys?id=10934555
>
> Note: Please do not reply to this message. Poll votes are
> not collected via email. To vote, you must go to the Yahoo! Groups
> web site listed above.
>
> Thanks!

1084. (no subject)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-24 04:50:45 UTC
From: ve7ask
Topic: 1084 Message: 1084

Having just arrived with my beam on a short 20' mast, I am happy to report that after work tonight I completed my five-band hex "sweep" working ZL7C on 20/17/15/12/10. The G5RV had a hard time hearing Chatham Island for a couple of the contacts. Using the hex, I managed to work the lads in wide pileups, as follows:

```
18-Oct-2002 00:12 28024.0 CW ZL7C Chatham 4th call 100w
22-Oct-2002 02:59 21015.3 CW ZL7C Chatham 1st call 100w
23-Oct-2002 02:05 18073.9 CW ZL7C Chatham 3rd call 100W
23-Oct-2002 02:09 14026.5 CW ZL7C Chatham 2nd call 100W
24-Oct-2002 00:14 24894.0 CW ZL7C Chatham 2nd call 100w
```

No supernatural antenna here. Just something better than the crummy one I was using. Still have to use the G5RV to work 'em on 30M and 40M -- and a rather long shot on 80M.

73,

Bud, VE7ASK

1085. Re: [hex-beam] Re: New poll for hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-24 10:04:21 UTC
From: Eric Carling
Topic: 406 Message: 1085

An opinion - yes. Valid? Apart from my complete lack of understanding how a Hexbeam users' poll has any bearing on the USA's licensing structure, I saw some validity until the last paragraph took constructive argument into the depths of insult thus negating the point of view completely.

Getting 'real' presumably is have an understanding of real world, practical situations not textbook theory. Being an 'amateur' is to know of, not necessarily to have intimate understanding for complexities of, such things as antenna types, efficiency, gain, etc. Scentific it was never meant to be.

The poll doesn't ask for a stipulation of gain, merely to give an opinion. Those opinions can be formed because we all take in bits of information over time. So we can actually take a reasonble and valid stab at recording in the poll how we think our Hexbeam performs compared to any other antenna we have now or another we just took down or with our buddy across town. Propagation now, yesterday, last week, in fact all the variables are subconsciously taken into account in forming that opinion.

Its about enjoyment, sharing opinions gained through experience and not about decrying someones lack of pre-license knowledge or conforming to interpretations of the term amateur.

I found the poll results in-line with my own submission and interesting in that they underscored the general consensus that gain is perceived to be high and more than might be expected. Therefore a useful exercise.

Eric G0CGL.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 23 October 2002 23:12:31
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: New poll for hex-beam

Just my opinion on a poll that asks what people think the gain of an antenna is:

It might be one thing to ask "are you happy with the antenna", if you are happy, who is to argue; but to ask what one thinks the gain is from using it is so un-scientific as to make a farce of our licensing structure.

Let's think for a while, the upper H.F. bands are going thru wildly varying conditions in this sun cycle. When you can have 30 or 40 db differences in the same path from day to day, then what is there to compare to? Don't tell me about comparing with the guy down the

street that has a Whiz-Bang 40G, because he does not know if his is working correctly or how much his manufacturer lies about it's gain.

Then there is the guy that had nothing but a supper crummy antenna before and then puts up ANY type of beam on a 40 foot tower; he is going to think he "has arrived"!

The truth is that this is a compromised two element antenna that is darn good for the weight and size.....It is NOT a new scientific breakthrough or a super "new age" beyond science developement. Let's all get REAL !!! Remember, we are supposed to know something before we get a license? Or maybe the term AMATEUR is more fitting than I think.

Hal, N6TZ
N6TZ@...

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>
> FOR OWNERS OF THE COMMERCIAL TRAFFIE HX-
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> Based on your "on the air" operating
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> your station, what do you believe the
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> o 17 meters: Greater than 5 dBd
> o 15 meters: Less than 3 dBd
> o 15 meters: 3 dBd
> o 15 meters: 4 dBd
> o 15 meters: 5 dBd
> o 15 meters: Greater than 5 dBd
> o 12 meters: Less than 3 dBd
> o 12 meters: 3 dBd
> o 12 meters: 4 dBd
> o 12 meters: 5 dBd
> o 12 meters: Greater than 5 dBd
> o 10 meters: Less than 3dBd

> o 10 meters: 3 dBd
> o 10 meters: 4 dBd
> o 10 meters: 5 dBd
> o 10meters: Greater than 5 dBd
>
>
> To vote, please visit the following web page:
>
> http://groups.yahoo.com/group/hex-beam/surveys?id=10934555
>
> Note: Please do not reply to this message. Poll votes are
> not collected via email. To vote, you must go to the Yahoo! Groups
> web site listed above.
>
> Thanks!

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[Non-text portions of this message have been removed]

1086. tuning hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-27 15:22:16 UTC
From: b3s7a00@aol.com
Topic: 1086 Message: 1086

Hi.
I am homebrewing a two-band hex beam, and have come to the step of tuning the reflectors. I have an mfj antenna swr analyzer to use, and am confused on how to couple it to the reflector.
other questions:
does tuning the parasitic element effect the tuning of the driven element?
Is the reflector one long wire? Or is it broken in the middle like the driven element?
what is the tuned FREQ difference for the elements? 5%?
]
any help on coupling or anything else is greatly appreciated.

[Non-text portions of this message have been removed]

1087. new HEXBEAM owner

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-28 02:06:33 UTC
From: Phil Witherspoon
Topic: 1087 Message: 1087

Hi group, my name is Phil Witherspoon (NH2PW) and I'm the proud parent of a new HB. Below is an e-mail I sent to Barry (W4WB) this morning. I've only been an active ham for a couple of months since transferring to Guam. Not many active hams on Guam anymore so I've adopted Barry as my elmer and he has been most gracious with his time, responding to all my newbie questions with thoughtful advice and suggestions. In fact at his suggestion I purchased the HB and assembled this weekend. Some background - my primary rig is a FT-817 which I had sent to Barry to install a dual mode filter. The rig I used this weekend in the contest was my backup, MFJ-9420 SSB QRP transceiver. I had been using a portable dipole (BUDDIPOLE) for an antenna. Not really made for DX, especially operating QRP. I'm very pleased with the performance of the HB, ease of assembly and quality of materials. If you need a Guam QSO, just send me an e-mail at NH2PW@... and I will try and accommodate.

"Barry, got good news and bad news (sort of). Good news first. It's Monday morning and the wife called and said I have a package from you. My FT-817 has arrived! Still in good news vein, Saturday afternoon broke out the HEXBEAM and put together. Piece of cake. Took me about 3 hours to assemble and mount on mast. Only challenging part was it was pouring down rain - didn't let it stop me tho. It really is beautiful and instructions were right on. Only thing I didn't do was drill the hole in the base plate, afraid I would get shocked. Now the bad news. I'm afraid you won't be my first contact - in fact you won't be my first 100. Contest was on, I was pumped and well, just couldn't help myself. What a difference this antenna makes. I worked all continents except Antarctica. Ended up early this morning with a total of 101 contacts with 2 dupes. Manually kept the contest log, just didn't catch it. Tired but happy. Just hope I don't fall asleep at work. Hands are sore from manually rotating the mast, rotor still not here. Sorry about not waiting - once I get the 817 hooked up you can be my first on a band of your choice other than 20. Did you work the contest, I listened for your call letters? Thanks again for making this possible. 73, HHBO (happy hexbeam owner) Phil (NH2PW)"

1088. Re: [hex-beam] new HEXBEAM owner

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-28 17:47:53 UTC
From: Herbert Meiselman
Topic: 1087 Message: 1088

Phil:

Congratulations and best wishes! As an "old" user of a HB (at least 6 months) I wish you welcome to the group,

All the HB folks are nice and love to offer suggestions, support, and words of wisdom. Even Barry can be useful (on a good day!).

73,

Herb K6HJM

At 02:06 AM 10/28/02 +0000, you wrote:
>Hi group, my name is Phil Witherspoon (NH2PW) and I'm the proud
>parent of a new HB. Below is an e-mail I sent to Barry (W4WB) this
>morning. I've only been an active ham for a couple of months since
>transferring to Guam. Not many active hams on Guam anymore so I've
>adopted Barry as my elmer and he has been most gracious with his
>time, responding to all my newbie questions with thoughtful advice
>and suggestions. In fact at his suggestion I purchased the HB and
>assembled this weekend. Some background - my primary rig is a FT-817
>which I had sent to Barry to install a dual mode filter. The rig I
>used this weekend in the contest was my backup, MFJ-9420 SSB QRP
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>pleased with the performance of the HB, ease of assembly and quality
>of materials. If you need a Guam QSO, just send me an e-mail at
>NH2PW@... and I will try and accommodate.
>
>"Barry, got good news and bad news (sort of). Good news first. It's
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>
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

1089. Hex-Beam number 255 on the air !!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-31 03:32:20 UTC
From: aep002
Topic: 1089 Message: 1089

I ordered my Hex-Beam from Mike after using one for several hours at our ARRL New England Convention special event station W1A.

When it arrived I used a 3 ft tripod and short mast as a holding fixture to build the antenna. Got some help from my wife to hold the wires in the insulators while I tightened them but otherwise assembly is a one person show. I ran a coax out to the tripod and worked some European DX with the antenna 5 ft off the ground as soon as I had it built.

I put the Hx5Bi up 30 ft with a 10 ft 1-1/2" aluminum mast and a spare 23 ft extension ladder bolted to my shed in the back yard. This puts the 20 meter elements at about 33 feet as far as I can determine. Turns with Radio Shack TV rotor. Used some 3/16 rope for guying just to keep the ladder & mast from swaying. NO NEED TO SPEND $$$ ON A TOWER WITH THIS ANTENNA !

At 30 ft the antenna beat my G5RV by a couple of S units most of the time on any band 20 through 10, any direction, even though the G5RV is higher at 45 ft as an inveted vee -- and I've worked a lot of DX with the G5RV incl. Japan and VK/ZL area. The new beam is pretty close in performance to my 15 meter resonant dipole at 45 ft when working stations broadside to the dipole, but much (3-4 s units) better than the dipole for stations off the ends. The dipole is much higher than the beam so it's not really a fair comparison. All I know is with the beam at about 330 degrees I called CQ for 15 seconds with 500 watts and a JA came back to me on 15 meter SSB. Could barely hear the JA with the dipole. Works great with just 100 watts both DX and stateside.

Even though I have no antenna restrictions in my neigborhood, I used Krylon camo paint (black, brown, olive drab green) to make the fiberglass spreaders, mast and ladder blend in with my trees in the background. It's almost invisible from the street. Did not paint the wires 'cause Mike Traffie doesn't recommend it and besides they will turn brown like an old penny after a few months.

The beam fits where my TA33jr would whack into trees and gives me the WARC bands too !

Hope to have some pics to show some time soon. The extra money spent on the antenna was saved by not buying an expensive tower in my case.

73,

Art Pizer
NF1A

1090. Re: Hex-Beam number 255 on the air !!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-31 05:21:08 UTC
From: w4wb
Topic: 1089 Message: 1090

Congratulations Art on becoming operational. I picked up K8T this afternoon on 12 m on the 1st call even though there was a nice pile and he was just 56. Heard 9A9A on 10 m and gave Emil a call. He was a wonderfully strong 20/9. Both of us were surprised that I was 40/9 and the loudest he had heard today. It was great propagation between us of course, but the antenna didn't hurt. hi hi I look forward to more of your experiences with your several antennas. Have fun!
73,
Barry - W4WB

--- In hex-beam@y..., "aep002" <apizer@a...> wrote:
> I ordered my Hex-Beam from Mike after using one for several hours at
> our ARRL New England Convention special event station W1A.
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> When it arrived I used a 3 ft tripod and short mast as a holding
> fixture to build the antenna. Got some help from my wife to hold the
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>
> Even though I have no antenna restrictions in my neigborhood, I
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> fiberglass spreaders, mast and ladder blend in with my trees in the
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> The beam fits where my TA33jr would whack into trees and gives me
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>
> Hope to have some pics to show some time soon. The extra money
spent
> on the antenna was saved by not buying an expensive tower in my
case.
>
> 73,
>
> Art Pizer
> NF1A

1091. Hex assembling - the right way?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-31 08:21:05 UTC
From: lz2be
Topic: 1091 Message: 1091

Hi guys,

preparation of details for my home made 5band Hex are almost finnished. If weather permit I will try to assemble and put it up during the weekend.
Unfortunately I must assemble it working alone on the roof of my 2 flat house (about 9m above ground). The reason is because from two sides there are power lines, there are trees at the third side and my vertical from the fourth side.
My idea is to put the central hub/pipe with all wires connected to it on the rotator, after that to install the spreaders and at the last to connect/tight wires to spreaders.
The roof is not flat, so I will turn the antenna to reach spreaders one by one from the only possible place.
My question is what is the right way to do that job? From where I have to start - 20m to 10m or 10m to 20m? To connect 20m wires to free standing spreaders and then to fit the spreaders to the hub?
Thanks in advance for the suggestions.

73 de Bob, LZ2BE

1092. Re: Hex assembling - the right way?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-31 19:21:24 UTC
From: dl7io
Topic: 1091 Message: 1092

Hello Bob,
sounds great...
Before installing any element you have to fix the support lines
between the spreaders, than you fix the two spreader with the
isolators to the centerhub and than start with the elements beginning
from 20m. I would recommend to do it the first time on the ground...
It takes some more time but you will know the technology how to
assemble.
regards Holger

--- In hex-beam@y..., "lz2be" <lz2be@y...> wrote:
> Hi guys,
>
> preparation of details for my home made 5band Hex are almost
> finnished. If weather permit I will try to assemble and put it up
> during the weekend.
> Unfortunately I must assemble it working alone on the roof of my 2
> flat house (about 9m above ground). The reason is because from two
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> My question is what is the right way to do that job? From where I
> have to start - 20m to 10m or 10m to 20m? To connect 20m wires to
> free standing spreaders and then to fit the spreaders to the hub?
> Thanks in advance for the suggestions.
>
> 73 de Bob, LZ2BE

1093. Re: tuning hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-31 19:43:30 UTC
From: dl7io
Topic: 1086 Message: 1093

Hello KC0LND,
have you ever modeled your beam on the computer?
How do you feed the elements?
What bands/element lengths are you using and what is the distance between the elements?
The difference between reflector and radiator length is about 2% in multiband versions. The reflector length is the most important part for the antenna gain. By changing the radiator a little (!!!) bit you can influence the feedpoint resistance.
Something deep inside tells me that you did not model your project. I highly recommend you to do that first and start with a single band version (model) playing around to get a feeling for the antenna.
Nevertheless let me know if you have any questions.
regards Holger
PS. I got only one feedback concerning the modelling. Nevertheless I will put some EZNEC30 files for single band versions into the file section.

> Hi.
> I am homebrewing a two-band hex beam, and have come to the step of tuning the
> reflectors. I have an mfj antenna swr analyzer to use, and am confused on how
> to couple it to the reflector.
> other questions:
> does tuning the parasitic element effect the tuning of the driven element?
> Is the reflector one long wire? Or is it broken in the middle like the driven
> element?
> what is the tuned FREQ difference for the elements? 5%?
>]
> any help on coupling or anything else is greatly appreciated.
>
>
> [Non-text portions of this message have been removed]

1094. Re: [hex-beam] Re: tuning hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-31 22:05:30 UTC
From: b3s7a00@aol.com
Topic: 1086 Message: 1094

Hi again...
Thanks for the info.

Well,... I haven't yet tried modeling the ant, but I am following the instructions by EI7BA very closely. The only difference being (INSULATED WIRE). I know it will detune the elements, but it was all I had available, and I didn't feel like stripping the wire like I have done in past projects. I am cutting the wire for 14.05 MHz, even though I want it to function in the mid-lower CW band. (**Compensation for insulated wire**).
I am feeding the elements by coax, 50 ohm, with an insulator between the wires... The whole works is potted in silicone. (to keep off snow, and Ice)
Does the resonant frequency of the driven element effect the anything but SWR? (I have a crazy thought in my head: that the antenna's gain, FBR, etc., will function relative to the freq. designated by the reflector, and driven element length will effect SWR, with less effect to gain etc. As I said, this may only be some strange delusion on my part, but its in my head nonetheless. (does it have roots in the truth?) Or is the driven element important for gain, (and such), too? (I was going to multband 20 and 10 meters, but am now only doing 20, due to lack of descent weather)
TNX for info, 73 Tony (KC0LND)

[Non-text portions of this message have been removed]

1095. New group member OZ1DTF

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-10-31 10:11:16 UTC
From: oz1dtf
Topic: 1089 Message: 1095

Hi,
I have joined the HB group despite that I do not own a hex-beam...or any other beam. But I do have a Titanex ULT1300 mast with a 2x10m inverted vee + 450 ohm ladder line. While I consider a heavier load I absorb all information about light beam antennas. The ULT1300 mast is very light and flexible (Titanex claims the flexibility is an advantage). I have an excellent QTH in Copenhagen and get out very well also with the wire antenna. But next spring I want something else.
73
Klas OZ1DTF

1096. RE: [hex-beam] New group member OZ1DTF

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-01 00:15:05 UTC
From: Peter's Mail
Topic: 1089 Message: 1096

Welcome Klas!!

I was able to make 1,600,000 points in CQWW with my trusty HEX Beam &
single op this past weekend.....

Nice to have you on board.

73

REN WB3FSR

> -----Original Message-----
> From: oz1dtf [mailto:OZ1DTF@...]
> Sent: Thursday, October 31, 2002 05:11
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] New group member OZ1DTF
>
> Hi,
> I have joined the HB group despite that I do not own a hex-beam...or
> any other beam. But I do have a Titanex ULT1300 mast with a 2x10m
> inverted vee + 450 ohm ladder line. While I consider a heavier load I
> absorb all information about light beam antennas. The ULT1300 mast is
> very light and flexible (Titanex claims the flexibility is an
> advantage). I have an excellent QTH in Copenhagen and get out very
> well also with the wire antenna. But next spring I want something
> else.
> 73
> Klas OZ1DTF
>
>
>
> ------------------------- Yahoo! Groups Sponsor
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
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>

1097. Re: Considering....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-01 00:48:50 UTC
From: aep002
Topic: 1042 Message: 1097

Jason,
Please see my message # 1090 for some more ideas and info.

Let me know what you thought.

73,

Art
NF1A
--- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> Hi guys,
>
> Stumbled across an ad for the Hex beam and read about it in
Eham.net and at
> the hexbeam site. It seems to fit the bill nicely for me. I am
considering
> the HX5 version versus a Force 12 XR5. I am still considering tower
> choices. I already have a Yaesu 450XL rotor which would be
adequate for the
> Hex beam. What I like the most about the hex beam is that for a
smaller
> weight and area, I am getting the equivalent to an XR5 from Force
12. At
> about the same price.
>
> I would love to homebrew a single bander just for grins... are
there any
> details on constructing my own? (I will still be getting the HX5
later)
>
> Also, I was looking over the pictures and I noticed someone had an
Aluma
> crankup. I could not find any prices on their crankups, but that
sounds
> like a nice alternative. What type of prices (including freight)
and
> turnaround time is there on their standard duty crankup? (T135) My
current
> tower choices are Rohn 25G, 45G, Trylon, and Universal. The city I
live in
> will allow me to construct a crankup tower no higher than 35 feet
without a
> variance hearing. I may be able to install a crankup that will go
higher,
> but need to keep it below 35 feet until after the variance.
>

> Thanks guys... I will let you know of my progress on the tower....
>
> Jason Hissong
> N8XE

1098. Re: Considering....

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-01 00:56:22 UTC
From: aep002
Topic: 1042 Message: 1098

Jason I meant please see my message 1089 not 1090. 1090 is w4hb's reply. Again let me know what you think.

73,
Art
--- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> Hi guys,
>
> Stumbled across an ad for the Hex beam and read about it in Eham.net and at
> the hexbeam site. It seems to fit the bill nicely for me. I am considering
> the HX5 version versus a Force 12 XR5. I am still considering tower
> choices. I already have a Yaesu 450XL rotor which would be adequate for the
> Hex beam. What I like the most about the hex beam is that for a smaller
> weight and area, I am getting the equivalent to an XR5 from Force 12. At
> about the same price.
>
> I would love to homebrew a single bander just for grins... are there any
> details on constructing my own? (I will still be getting the HX5 later)
>
> Also, I was looking over the pictures and I noticed someone had an Aluma
> crankup. I could not find any prices on their crankups, but that sounds
> like a nice alternative. What type of prices (including freight) and
> turnaround time is there on their standard duty crankup? (T135) My current
> tower choices are Rohn 25G, 45G, Trylon, and Universal. The city I live in
> will allow me to construct a crankup tower no higher than 35 feet without a
> variance hearing. I may be able to install a crankup that will go higher,
> but need to keep it below 35 feet until after the variance.
>
> Thanks guys... I will let you know of my progress on the tower....
>
> Jason Hissong

> N8XE

1099. Re: [hex-beam] Re: tuning hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-01 09:07:17 UTC
From: Boian Petkov
Topic: 1086 Message: 1099

Hello Tony,
during the summer I built a 10m monoband Hex. The model was done by using of MMANA to be resonant
on 28.3MHz. I used INSULATED wire #14, directly fed with 50 Ohm coax. The best SWR according my
radio was measured at 27.0MHz. Even in this case the antenna was vy good! It looks that velocity
factor of such insulated wire is 0,954 so I had to shorten the elements 0,954 times. The same
sitiuation happen with my 40/30m vertical. 10MHz section was made by the same insulated wire and I
calculated same VF=0,954 while 7MHz Alu pipe section was OK.
73 de Bob, LZ2BE

--- b3s7a00@... wrote:
> Hi again...
> Thanks for the info.
>
> Well,... I haven't yet tried modeling the ant, but I am following the
> instructions by EI7BA very closely. The only difference being (INSULATED
> WIRE). I know it will detune the elements, but it was all I had available,
> and I didn't feel like stripping the wire like I have done in past projects.
> I am cutting the wire for 14.05 MHz, even though I want it to function in the
> mid-lower CW band. (**Compensation for insulated wire**).
> I am feeding the elements by coax, 50 ohm, with an insulator between the
> wires... The whole works is potted in silicone. (to keep off snow, and Ice)
> Does the resonant frequency of the driven element effect the anything but
> SWR? (I have a crazy thought in my head: that the antenna's gain, FBR, etc.,
> will function relative to the freq. designated by the reflector, and driven
> element length will effect SWR, with less effect to gain etc. As I said, this
> may only be some strange delusion on my part, but its in my head nonetheless.
> (does it have roots in the truth?) Or is the driven element important for
> gain, (and such), too? (I was going to multband 20 and 10 meters, but am now
> only doing 20, due to lack of descent weather)
> TNX for info, 73 Tony (KC0LND)
>
>
> [Non-text portions of this message have been removed]
>
>

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1100. Hex or SteppIR?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-01 10:26:38 UTC
From: George Shaw
Topic: 1086 Message: 1100

Moving QTH early next year. I can put up a moderate mast and rotator and am considering between the multi-band hex and the SteppIR 3 elt.

Now; which one? Pros and cons? Suggestions etc please.

George Shaw MI3GTO

Mobile: +44 (0) 7740 361 163
Email: george.shaw@...

1101. Re: [hex-beam] Hex or SteppIR?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-01 11:02:23 UTC
From: Eric Carling
Topic: 1086 Message: 1101

Pro: Performance - at least 8.2dbi claimed forward gain. When their Moses Lake, Washington station does its tests into Europe, it is just amazing to hear.

Cons: Price (£1075.00 in UK not including control cable and transceiver interface) and size (16ft boom and 36ft element length).
The brushes will wear - how will that affect performance?

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 01 November 2002 10:20:55
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Hex or SteppIR?

Moving QTH early next year. I can put up a moderate mast and rotator and am considering between the multi-band hex and the SteppIR 3 elt.

Now; which one? Pros and cons? Suggestions etc please.

George Shaw MI3GTO

Mobile: +44 (0) 7740 361 163
Email: george.shaw@...

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hex-beam-unsubscribe@yahoogroups.com

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.

[Non-text portions of this message have been removed]

1102. Re: Hex or SteppIR?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-01 13:28:55 UTC
From: w4wb
Topic: 1086 Message: 1102

--- In hex-beam@y..., "George Shaw" <george.shaw@u...> wrote:
> Moving QTH early next year. I can put up a moderate mast and
rotator and
> am considering between the multi-band hex and the SteppIR 3 elt.
>
> Now; which one? Pros and cons? Suggestions etc please.
>
>
> George Shaw MI3GTO

Hi George,

Main cons are it's much larger size, weight and wind loading (torque too). Gain is a bit more as claimed. I understand that they have life-cycled the tuning over a million times w/o failure. My question is how well it will withstand oepration near the sea and a heavy UV environment. The Hex-Beam is field proven now.

Only heard one on the air and the station was unremarkable (similar to other staions on the band) most likely due to proprogation at the time. I often get BIG signal reports too, but we are always a slave to the proprogation.

A good feature is its "optimum" tuning. The 5-band Hex-Beam performance is not quite as good as a mono-band Hex-Beam understandably, but it darn good. Instant band switching is just great.

If I had the space, tower, rotor, neighbors, etc. that would allow the SteppIR3, I would give it a go.

Either antenna will serve you well.

73,
Barry - W4WB

1103. RE: [hex-beam] Re: Hex or SteppIR?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-01 13:39:01 UTC
From: George Shaw
Topic: 1086 Message: 1103

Thanks to all whom have commented so far. Question can you use a ATU to tune on other frequencies than those covered by the main bands? What about using the Hex for SWL?

George Shaw MI3GTO

Mobile: +44 (0) 7740 361 163
Email: george.shaw@...

1104. Re: [hex-beam] Re: Hex or SteppIR?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-01 16:16:44 UTC
From: Ed Fox
Topic: 1086 Message: 1104

I was faced with the same decision when at Dayton in 2001. In fact I'd filled out a purchase agreement with the SteppR people, including my credit card info. When I got home I looked at my property again and decided that the SteppR was just too big for my lot. The SteppR people were very gracious about my call to cancel my order. They are top notch and I would have enjoyed the 6 meter band that the Hex doesn't offer. So now I have two hex antennas. The travel version monobander (which includes 6 meters) and the 5 band on my roof. I'm very happy with the Hex-beams. Ed, N0OQ

>From: "w4wb" <w4wb@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] Re: Hex or SteppIR?
>Date: Fri, 01 Nov 2002 13:28:55 -0000
>
>--- In hex-beam@y..., "George Shaw" <george.shaw@u...> wrote:
> > Moving QTH early next year. I can put up a moderate mast and
>rotator and
> > am considering between the multi-band hex and the SteppIR 3 elt.
> >
> > Now; which one? Pros and cons? Suggestions etc please.
> >
> >
> > George Shaw MI3GTO
>
>Hi George,
>
>Main cons are it's much larger size, weight and wind loading (torque
>too). Gain is a bit more as claimed. I understand that they have
>life-cycled the tuning over a million times w/o failure. My question
>is how well it will withstand oepration near the sea and a heavy UV
>environment. The Hex-Beam is field proven now.
>
>Only heard one on the air and the station was unremarkable (similar
>to other staions on the band) most likely due to proprogation at the
>time. I often get BIG signal reports too, but we are always a slave
>to the proprogation.
>
>A good feature is its "optimum" tuning. The 5-band Hex-Beam
>performance is not quite as good as a mono-band Hex-Beam
>understandably, but it darn good. Instant band switching is just
>great.
>
>If I had the space, tower, rotor, neighbors, etc. that would allow
>the SteppIR3, I would give it a go.

>
>Either antenna will serve you well.
>
>73,
>Barry - W4WB
>

_____
Choose an Internet access plan right for you -- try MSN!
http://resourcecenter.msn.com/access/plans/default.asp

1105. Re: Hex or SteppIR?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-01 19:13:17 UTC
From: w4wb
Topic: 1086 Message: 1105

--- In hex-beam@y..., "George Shaw" <george.shaw@u...> wrote:
> Thanks to all whom have commented so far. Question can you use a
ATU to
> tune on other frequencies than those covered by the main bands? What
> about using the Hex for SWL?
>
> George Shaw MI3GTO

Hi George,

Yes, you can use a tuner to play with the Hex-Beam outside the normal
bands.

Several of us have played games with the HB and a tuner to operate on
6, 30, 40, and 75 m! Strange experiment, but it worked. I have no
idea what gain is for any of these bands (or why it works at all
here), but there was directivity. I recall on 30 m that a fellow in
MO (about 400 miles) said the signal was strong and the F/B was maybe
15 dB. Go figure. W6HF has have some fun on 75 m with great
results. NO, the Hex-Beam isn't an optimized antenna for these other
bands, but it works to some extent and extends the useful operating
coverage for those having no low-bands antenna(s).

Look at some past postings for more data.

73,
Barry - W4WB

1106. Re: Hex or SteppIR?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-01 19:29:08 UTC
From: tomac14
Topic: 1086 Message: 1106

Hi George:

I own a 5-band hexbeam and have a friend in Florida who owns a SteppIR.

I really like my Hexbeam.

And he really likes his steppIR.

The SteppIR has several features that the hexbeam does not have:
1. It has 3 elements vs 2 for the hexbeam, thus more gain.
2. He can change directions 180 degrees in 3 to 5 seconds by making the reflector the director and vice versa.
3. It has a bi-directional mode where he can make it into two 2-element beams, 180 degrees from each other, by having two directors and no reflector. Thus, he can transmit using two beams at the same time, one facing one direction and the other facing 180 degrees away, allowing him to operate "Short Path" and "Long Path" at the same time.

BUT it is really BIG compared to the hexbeam. I think the elements are 36 feet long. And it is much more complicated with the motors and tapes plus an expensive control box for adjusting the element lengths and changing directions, bi-directional, etc.

So it gets down to a question of perhaps a little better gain for a lot more space required for the elements and for turning radius plus a bigger rotor and higher tower (Hexbeams work great at 35 to 40 feet).

Their both good antennas. How much is a few dbs of gain worth to you and your neighbors???

Good luck in your decision.

Tom, N0YD "Yankee Doodle"

1107. Re: Hex or SteppIR?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-01 19:31:20 UTC
From: tomac14
Topic: 1086 Message: 1107

Hi George:

I own a 5-band hexbeam and have a friend in Florida who owns a SteppIR.

I really like my Hexbeam.

And he really likes his steppIR.

The SteppIR has several features that the hexbeam does not have:
1. It has 3 elements vs 2 for the hexbeam, thus more gain.
2. He can change directions 180 degrees in 3 to 5 seconds by making the reflector the director and vice versa.
3. It has a bi-directional mode where he can make it into two 2-element beams, 180 degrees from each other, by having two directors and no reflector. Thus, he can transmit using two beams at the same time, one facing one direction and the other facing 180 degrees away, allowing him to operate "Short Path" and "Long Path" at the same time.

BUT it is really BIG compared to the hexbeam. I think the elements are 36 feet long. And it is much more complicated with the motors and tapes plus an expensive control box for adjusting the element lengths and changing directions, bi-directional, etc.

So it gets down to a question of perhaps a little better gain for a lot more space required for the elements and for turning radius plus a bigger rotor and higher tower (Hexbeams work great at 35 to 40 feet).

Their both good antennas. How much is a few dbs of gain worth to you and your neighbors???

Good luck in your decision.

Tom, N0YD "Yankee Doodle"

1108. Re: tuning hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-02 03:46:03 UTC
From: b3s7a00@aol.com
Topic: 1086 Message: 1108

ok
thanks again.
Just tune dir for freq, and driven for swr?
-Tony

[Non-text portions of this message have been removed]

1109. New Hex Beam on air

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-04 08:49:26 UTC
From: lz2be
Topic: 1109 Message: 1109

Hello friends,

I'm glad to inform you that my home made 5 Band Hex Beam is on air since Saturday and it works great!
I will try to upload some pictures later.
All assembling jobs were done working alone on the roof and it took me 1.5 hours to do it.
The model was done on MMANA engine, twin line between elements, BOTTOM feed with single coax through coax balun. All elements are done with INSULATED wire, cut to 4.6% shorter than the model dimensions (VF of insulated wire). The distances between elements are not changed and they are same as in DL7IO presentation.
The SWR on 20m is close to 2, with increase at band beginning to 2.5, but this is normal because the antenna is only 2m above the roof. On other bands SWR is lower and within range 1.8-1.2 depend of frequency, prety close to the predicted.
How the Hex works? I'm fully satisfied - 10 new countries on 12m, 3XY7C on 2 bands since first call, "booming signal" from ET3PA, I passed through several pipleups with 1-2 attempts. Compared to my Vertical I had 2-4 S units gain.
Of course it is not like the 7-8 el monobanders at local club, but for me it is an excelent antenna!

73 de Bob, LZ2BE

1110. SWL (Was:Re: Hex or SteppIR?)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-04 10:20:52 UTC
From: George Shaw
Topic: 1086 Message: 1110

Thanks to all who responded. The decision is near made in favour of the Hex given space and social constraints.

One final question not yet answered. Is anyone using the Hex to also Rx SW broadcasts or utility Tx? I may or may not be able to put up long wire or loop for SWL but would be interested in knowing what sort of performance that can be expected across the SW bands for Rx only with a 5 band unit.

--
George Shaw MI3GTO

" Any Sufficiently Advanced Technology
is Indistinguishable from Magic"
---Arthur C. Clarke

Mobile: +44 (0) 7740 361 163
Email: george.shaw@...

1111. Quad spreaders for HB?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-04 11:46:08 UTC
From: oz1dtf
Topic: 1111 Message: 1111

Hi,
In my case I think a home-made 20m monobander is the right choice. I have fiberglass spreaders (4m long) from a commercial Quad antenna. I am a bit concerned if it is a good idea to use them. I do not like to shorten them. I am curious if anyone already has tried this. I am happy that I joined the HB group and get access to valuable info. I have now uploaded a picture of my empty mast.
73
Klas OZ1DTF

1112. SWL (Was:Re: Hex or SteppIR?)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-04 12:38:54 UTC
From: w4wb
Topic: 1086 Message: 1112

George,

Read again Message 1105.

73,
Barry - W4WB

--- In hex-beam@y..., "George Shaw" <george.shaw@u...> wrote:
> Thanks to all who responded. The decision is near made in favour of
the
> Hex given space and social constraints.
>
> One final question not yet answered. Is anyone using the Hex to
also Rx
> SW broadcasts or utility Tx? I may or may not be able to put up long
> wire or loop for SWL but would be interested in knowing what sort of
> performance that can be expected across the SW bands for Rx only
with a
> 5 band unit.
>
> --
> George Shaw MI3GTO

1113. RE: [hex-beam] SWL (Was:Re: Hex or SteppIR?)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-04 16:58:22 UTC
From: George Shaw
Topic: 1086 Message: 1113

Yep I agree that operation is possible with a tuner to Tx outside the stated bands but I am wondering about SWL Rx as you cant use a tuner to SWR the antenna without Tx unless you use a minimum noise method to "guess" or a SWL tuner which means switching cables. I suppose I could just connect the Rx to the cable and tune by ear but I was wondering if anyone had actually done this and how successful it was?

--
George Shaw MI3GTO

" Any Sufficiently Advanced Technology
is Indistinguishable from Magic"
---Arthur C. Clarke

Mobile: +44 (0) 7740 361 163
Email: george.shaw@...

-----Original Message-----
From: w4wb [mailto:w4wb@...]
Sent: 04 November 2002 12:39
To: hex-beam@yahoogroups.com
Subject: [hex-beam] SWL (Was:Re: Hex or SteppIR?)

George,

Read again Message 1105.

73,
Barry - W4WB

1114. SWL (Was:Re: Hex or SteppIR?)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-04 18:02:41 UTC
From: w4wb
Topic: 1086 Message: 1114

Yes George, it is easy to tune for max signal or noise with the ZM-2
or the Z-11 tuners without TX a signal. I have done this and worked
FB for SWLing.
73,
Barry - W4WB

--- In hex-beam@y..., "George Shaw" <george.shaw@u...> wrote:
> Yep I agree that operation is possible with a tuner to Tx outside
the
> stated bands but I am wondering about SWL Rx as you cant use a
tuner to
> SWR the antenna without Tx unless you use a minimum noise method to
> "guess" or a SWL tuner which means switching cables. I suppose I
could
> just connect the Rx to the cable and tune by ear but I was
wondering if
> anyone had actually done this and how successful it was?
>
> --
> George Shaw MI3GTO

1115. EI7BA - Updated Hex-Beam Page

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-05 06:39:07 UTC
From: David P Douglass
Topic: 1115 Message: 1115

Hi Guy's,

John, EI7BA, has updated his homebrew Hex-Beam page for those interested.

It can be found at..

http://www.iol.ie/~bravo/ahexbeam.htm

There is also heaps of other idea's and hints here for the homebrew antenna enthusiast, so check it out.

It's good to see all the homebrewing happening at the moment, and I'm beginning to get the urge to try a MKIII !!!

Regards All

David, VK2DPD (M0DPD)

1116. 'New' Small Beam - OptiBeam6-3M

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-07 00:06:50 UTC
From: vk2dpd
Topic: 1116 Message: 1116

A little off standard topic, but thought those interestecd in reduced size antennas may be interested!

I found a new small beam, based on the now famous Moxon design, of which the Hex is a derivative.

Check out..

http://www.arraysolutions.com/Products/optibeamob6-3M.htm#top%20of%20page

A little pricey but looks like a good design.

Regards

David, VK2DPD

1117. Hex-beam or X-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-09 10:08:02 UTC
From: sm7pxs
Topic: 1117 Message: 1117

Hi all ham-friends

I would like some advice on antennas.
If I want a small monoband antenna, should I go fo an hex-beam or an X-beam. I plan to build it myself and it will be bambu-speaders.
Pland to build it for 15 meters.

TNX in advance
George
SM7PXS

1118. Re: 'New' Small Beam - OptiBeam6-3M

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-07 14:42:08 UTC
From: kg4eqd
Topic: 1116 Message: 1118

> http://www.arraysolutions.com/Products/optibeamob6-3M.htm#top%20of%
> 20page

I got to see this antenna and the hexbeam at Dayton 2002 Hamvention.
It is pricy, but it appears to be of very heavy duty construction.
About 35 pounds. Hardware and clamps are all stainless. Very FB
construction.

It has an interesting feed system too, as well as nesting
conventional yagi's within a moxon.

Its size and turn radius is small, but it is much heavier than the
hexbeam. The hexbeam is light enough to put up on a TV mast, which
seems to me one of its advantages, plus it has 5 bands.

Both fill a useful niche.

But thats just my opinion.....
73,
W4KAZ

1119. Re: 'New' Small Beam - OptiBeam6-3M

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-07 08:26:33 UTC
From: Dieter
Topic: 1116 Message: 1119

--- In hex-beam@y..., "vk2dpd" <david.douglass@o...> wrote:
> A little off standard topic, but thought those interestecd in
reduced
> size antennas may be interested!
>
> I found a new small beam, based on the now famous Moxon design, of
> which the Hex is a derivative.
>
> Check out..
>
> http://www.arraysolutions.com/Products/optibeamob6-3M.htm#top%20of%
> 20page
>
> A little pricey but looks like a good design.
>
> Regards
>
> David, VK2DPD

Hi everybody,
the antenna is produced by a german company ...

http://www.optibeam.de

You will find all/most secrets about this antenna on W4RNL's website

http://www.cebik.com/
-> Tales and Technicals

http://www.cebik.com/c3m.html
-> Moxon-Modifying the C3-Type Tri-bander
-> Replacing the 20-Meter Section with a Moxon Rectangle

... well ... so nothing new ...

73 de Dieter, DF4RD

PS: By the way ... for all Hexbeam enthusiastics ...
Some facts - not rumors about Hexbeams ...

http://www.cebik.com/4.html
-> A Tale of 4 Beams: The X, the Hex, the Square, and the Rect

1120. Re: 'New' Small Beam - OptiBeam6-3M

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-09 15:55:21 UTC
From: w4wb
Topic: 1116 Message: 1120

>--- In hex-beam@y..., "Dieter" <df4rd@r...> wrote:
> Hi everybody,
<snip>
> 73 de Dieter, DF4RD
>
> PS: By the way ... for all Hexbeam enthusiastics ...
> Some facts - not rumors about Hexbeams ...
>
> http://www.cebik.com/4.html
> -> A Tale of 4 Beams: The X, the Hex, the Square, and the Rect

Hi Dieter,

Why do you say "Some facts - not rumors about Hexbeams?" Cebik's model doesn't agree in detail with the observed performance (he used a matching network). LB has never actually tested a Hex-Beam. His conclusions about bandwidth and SWR when the feedpoints are brought closer together (to obtain near 50 Ohm impedance) are not consistent with the observations I and others have made. Some so-called facts are little more helpful than "rumors" (whatever you mean by that).

I understand that a club up in New England recently compared the Hex-Beam against a new TA-32 in a number of A/B tests. Apparently the Hex-Beam outperformed the TA-32. Is that rumor or fact? Those guys figured it was fact to them.

Nice things about antennas is that there isn't a best one for all applications or operators. We can never run out of things to try and build. :-)

73,
Barry - W4WB

1121. Re: 'New' Small Beam - OptiBeam6-3M

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-11 17:20:40 UTC
From: Dieter
Topic: 1116 Message: 1121

```
--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> >--- In hex-beam@y..., "Dieter" <df4rd@r...> wrote:
> > Hi everybody,
> <snip>
> > 73 de Dieter, DF4RD
> >
> > PS: By the way ... for all Hexbeam enthusiastics ...
> > Some facts - not rumors about Hexbeams ...
> >
> > http://www.cebik.com/4.html
> > -> A Tale of 4 Beams: The X, the Hex, the Square, and the Rect
>
>
> Hi Dieter,
>
> Why do you say "Some facts - not rumors about Hexbeams?"

Hi Barry,
I'm watching the mail traffic on Hexbeam for a while and was really
surprised about all of the enthusiatic mails written in the past ...

For example:
... Comparison Hexbeam 3-4 S-Units better as antennas xyz ...

The only thing I want to do is to bring the discussion "back to
reality" ...

Facts are:
==========
-1- The Hexbeam is a 2 element beam
so the maximum gain can be 4 db over dipole
and it doesen't matter what kind of design for two wires you are
using ...

-2- if you are using a Multiband System
you will never get the maximum on all bands

-3- if you ever simulated DL7IO's design of the 5 Band Version
you will see the gain on 12m and 10m is very close to a simple
dipole; 20m to 15m is performing better - but never better
than a 2el. beam -> means 4db over dipole

-4- you can't compare antennas on different heights ...

-5- you can't compare antennas within one or two qsos on
"short skip" ... that's nuisance ...
```

Cebik's
> model doesn't agree in detail with the observed performance (he
> used
> a matching network). LB has never actually tested a Hex-Beam. His
> conclusions about bandwidth and SWR when the feedpoints are brought
> closer together (to obtain near 50 Ohm impedance) are not
> consistent
> with the observations I and others have made. Some so-called facts
> are little more helpful than "rumors" (whatever you mean by that).
>
> I understand that a club up in New England recently compared the
> Hex-
> Beam against a new TA-32 in a number of A/B tests. Apparently the
> Hex-Beam outperformed the TA-32. Is that rumor or fact? Those
> guys figured it was fact to them.
>

Would be nice to see and read the results ... not only to hear about !

> Nice things about antennas is that there isn't a best one for all
> applications or operators. We can never run out of things to try
and
> build. :-)
>
> 73,
> Barry - W4WB

I absolutly agree that the Hexbeam is a nice antenna for people
with limited antenna space and for people looking for a small and
light-weight antenna ...

Never mind

73 de Dieter, DF4RD

Bavarian Contest Club, BCC
http://www.bavarian-contest-club.de

1122. 15-10 meter Hexbeam on order!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-11 20:05:43 UTC
From: gdguy21
Topic: 1122 Message: 1122

I had a nice chat with Mike and placed my order for the little duobander. I'm excited!

Howard

1123. Re: 15-10 meter Hexbeam on order!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-12 13:48:54 UTC
From: w4wb
Topic: 1122 Message: 1123

--- In hex-beam@y..., "gdguy21" <gdguy21@y...> wrote:
> I had a nice chat with Mike and placed my order for the little
> duobander. I'm excited!
>
> Howard

Am sure you will be pleased. Despite the stange statements a couple of folks have made about the 10 & 12 m Hex-Beam performance being no better than a dipole on these bands, I am sure you will be most pleased with its performance. For example, Ed P5/4L4FN has found the 10-15 m Hex-Beam has made a world of difference (not to mention that the ham world consistently now comments on his stronger signal) over the Butternut vertical he had been using.

BTW, what is your call sign so that we can listen out for you?

73,
Barry - W4WB

1124. Re: 'New' Small Beam - OptiBeam6-3M

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-12 20:29:09 UTC
From: Brian Badger
Topic: 1116 Message: 1124

I guess I just don't understand why LB Cebik didn't model the actual hex-beam design people actually use. But, then, his comment about the "end-coupled set" gives me an indication -- perhaps he simply doesn't like Traffie and would rather not see him get any business.

I totally agree that the claims I see from Traffie are suspect, but that's no reason to model a different antenna, and then imply that it's attributes apply to the commercial design.

That sort of gamesmanship forces me to label cebik.com as "for entertainment purposes only". I simply can't trust LB's motives anymore. That and the fact that my "impossible" 17m L keeps making DX contacts.
--
Brian N0KZ

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:

> LB has never actually tested a Hex-Beam.

1125. EZNEC3.0 model files

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-13 16:21:25 UTC
From: dl7io
Topic: 1125 Message: 1125

Hello,
because of my QRL I had to be off for a while. I downloaded a zip file in the file section under my call. This file includes single band models from 10-80m for EZNEC3. I guess this program is what people have mostly available, who are willing to come to the basics. An extra excel file is included to change element lengths or end insulator lengths for playing around with the model file and look for other optimums.
I would be happy to get a feedback...

Concerning the comments on Cebiks comparing of different 2 element designs I really have a problem to follow the arguments. But may be it is because of my poor English. It is correct that Cebik took not the actually used design. He did a small changing in the feeding system with the result that the model he finally used for comparing the different antennas is better concerning the gain/bandwith relation to that what we are using for radioing! So he gave an extra point to this design and did not work against Traffie. Please read again carefully the comments he gave. Everything he wrote is correct. We are designing the antennas for direct 50 Ohm feeding. This of course makes the antenna more simple. But we miss the point with the best gain. In the area where we have a SWR less or equal 1:2 with 50 Ohm the gain already slopes down from the highest point. And for bands with more than 100 kHz bandwith the gain difference between the ends of the band is about 2 dBi.

Please do your homework and find it out yourself before we insult somebody. I'm sure Cebik has enough other things to do and enough own success and no reason nor needs to think about how he can work against someone else.
Holger, DL7IO

1126. Re: EZNEC3.0 model files

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-13 16:35:26 UTC
From: Brian Badger
Topic: 1125 Message: 1126

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
> Please read again carefully the comments he gave. Everything he
wrote is correct.

The comment that stands out to me most is his reference to the
"end-coupled set". I am certain that this may be difficult to parse
if English is not your first language (and even if it is), but this is
a rather nasty insult.

I'm afraid that has colored by perception of LB permanently.
--
Brian N0KZ

1127. Re: [hex-beam] EZNEC3.0 model files

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-13 18:30:00 UTC
From: Marty N5NW
Topic: 1125 Message: 1127

Not to diminish the comments about Cebik's analysis of the hexbeam, but perhaps some restraint can be exhibited for a while. His wife just became a SK after a year-long battle with cancer.

And, for what it is worth, I do not believe Cebik has any financial involvement with any particular antenna or design. MFJ published his most recent book, but that appears to be the extent of his commercial involvement with a manufacturer.

I will say that the Traffie Hex-beam web page is up front in discussing that the antenna appears to always outperform the modeled expected performance. I know very little about antennas, personally. I'm an accountant, not an engineer. But, I suspect there is something in the design that creates a "compressed" take-off angle, and a more narrow elevation beamwidth. Maybe 70% of the signal concentrated within the 10-15 deg. elevation pattern, rather than having 70% of the signal within say 10 to 45 deg elevation, for example. Thus, the height above ground becomes important. While modeled gain, pattern, f-b, etc. may never match that of a yagi, I think there are some characteristics that the modeling programs just aren't catching yet.

Having said that, I also think that asking the "opinion" of the user about the "perceived gain" is not a worthwhile exercise. Kind of like asking people to estimate the volume of a jet engine (and express the answer in dB!).

Best to all, and condolences to L.B. Cebik on the loss of his wife.

de N5NW (Marty)
Bellbrook, Ohio

1128. Re: EZNEC3.0 model files

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-13 20:29:38 UTC
From: ki6lo
Topic: 1125 Message: 1128

Well put Marty.

Some of my thoughts on the subject at hand. These are not directed towards any person individually so hopefully I won't get blasted either.

The final decision on which antenna design to buy or build ultimately belongs to the person doing the project. The informed amateur will gather available pertinent information, do his (or her) own analysis of designs, tradeoffs, and applicablility to the space available for the install, allowable budget and intended use. If one should disagree with the results of anothers antenna design analysis, then such is life (unless the 2nd party is of course paying for the analysis - then they have the right to express the concerns, etc. as they feel necessary). If you should disagree with another's study or analysis, then I would suggest that either 1) disregard that as input in your own analysis or 2) give it less weight as an input. Too slam someone whose analysis differs from yours is definitely not applicable to common courtesy. If you feel that your analysis is sound and solid, by all means, post or publish it for the amateur community to review and use. If you do disagree with someone else's analysis, state so but try to do it in a friendly manner.

I have been watching this forum (as well as other like antennas) to gather actual user experiences, likes, and dislikes of commercially available small beams. A common trait in all forums seems to be "all it takes is one wrong word by someone to light the powder keg". I read Mr. Cebik's review as part of my analysis of acquiring a Hex-Beam for my QTH. He states that the designs he was reviewing were not in any way related to any commercial antennas, but rather ones he has dealt with in the past.

I have talked to the folks at Traffie Antennas to get answers to my questions concerning the multiband Hexbeam. I feel that I will most likely get one real soon, but until I actually have one and test it out, it's is a gamble on my part. A gamble that I feel is worth taking, I might add.

Anyway my two cents worth and I hope to soon join the ranks of happy (and no one's fault if I'm not) Hex-Beam owners.

Sidenote : I wasn't aware of Mr. Cebik's loss. I would like add my condolences to him on the loss of his wife.

73 es gud DX,

Gene KI6LO

--- In hex-beam@y..., "Marty N5NW" <n5nw@n...> wrote:
> Not to diminish the comments about Cebik's analysis of the hexbeam, but
> perhaps some restraint can be exhibited for a while. His wife just became a
> SK after a year-long battle with cancer.
>
.... clipped .....
> Having said that, I also think that asking the "opinion" of the user about
> the "perceived gain" is not a worthwhile exercise. Kind of like asking
> people to estimate the volume of a jet engine (and express the answer in
> dB!).
>
> Best to all, and condolences to L.B. Cebik on the loss of his wife.
>
> de N5NW (Marty)
> Bellbrook, Ohio

1129. Re: [hex-beam] Re: EZNEC3.0 model files

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-14 03:18:52 UTC
From: Jason Hissong
Topic: 1125 Message: 1129

>>feel that I will most likely get one real soon, but until I actually have one and test it out, it's is a gamble on my part. A gamble that I feel is worth taking, I might add.<<

Remember you can return it within 30 days if it does not work out (you are only out the shipping) I made the decision to get it because of that. I have yet to see that kind of return policy on another antenna (let me know if you find one). Am I expecting a three element beam performance out of it? Not really. I am expecting two element beam performance. My comparison was with the F12 XR5. This was lighter so the Hexbeam won out. Now, when I finally get this thing on the tower I can really start to see if it beats out a 3 element beam in some cases. If it does, great! If not, it still meets the expectations I set for myself.

As far as LB Cebik is concerned, I read his articles with great interest. I have learned alot. However, I also understand that it seems we rely way to much on models. It is the best we have, but models are exactly that, models. It is very hard to duplicate an antenna in real life. Too many variables. Models should be looked at as a starting point and that is all. I have been comparing models between my inverted V and my vertical (with radials) and according to the model, I should get about the same performance at a low elevation angle. However, the vertical is beating the dipole by 2 S units on DX stations!! But the model says that it should be the same!!

While folks argue about models and how great/horrible antenna A compared to antenna B is, I am making DX contacts....

Just my .02....

73
Jason Hissong
N8XE

[Non-text portions of this message have been removed]

1130. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-14 11:16:36 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 1130

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /LZ2BE/LZ2BE 5Band Hex.maa
Uploaded by : lz2be <lz2be@...>
Description : MMANA file of LZ2BE installation

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/LZ2BE/LZ2BE%205Band%20Hex.maa

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

lz2be <lz2be@...>

1131. Re: EZNEC3.0 model files

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-14 12:13:08 UTC
From: lz2be
Topic: 1125 Message: 1131

--- In hex-beam@y..., "dl7io" <dl7io@q...> wrote:
> Hello,

Hello,

I don't have enough experience with EZNEC, because I have EZNEC Demo version, which limits the number of segments. I'm using MMANA created by Makoto Mori and maintained by Gari,DL2KQ.
I just uploaded in Files section the MMANA model of my installation. In my case the antenna is bottom fed (10m band section) instead of "normal" top feeding (20m band section). I did it because of practical reasons and because MMANA doesn't show any significant difference of Hex performance in both cases. Some day I will try also top feeding, but now the WX is not good to get up on the roof..hi..
Working with MMANA I understood that the most important thing to have a model close to the reality is to use as much as possible number of segments. This should be applied especialy for antennas with lot of slopes like Hex beam. In my case I'm using 500-800 segments for whole antenna, depend of freq. With decreasing the number of segments you can see completely different data for R, X, SWR and paterns.
I agree with LB Cebic's conclusions, even he used slightly different model (N7CL). The N7CL model have little bit better performance than usual Hex, but from practical point of view it is more difficult for installation.

73 de Bob, LZ2BE

1132. Element length calculator

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-17 02:25:25 UTC
From: goodtimedallas
Topic: 1132 Message: 1132

Ive posted an element length spreadsheet based on the formula's listed on ei7Ba's web page. Hope this helps. Let me know if there are adjustments I need to make.

1133. Stacking

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-17 14:40:49 UTC
From: Jim Boyd
Topic: 1133 Message: 1133

Dear Group,
Anyone ever used a Hex-Beam with a Cushcraft 2-element 40 meter Beam? And if so, what spacing did you use between the beams.

73
Jim
kb9vtm

1134. 80-m CW

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-20 05:19:29 UTC
From: w4wb
Topic: 1134 Message: 1134

Thought it might be of interest to share a recent odd-ball operating experience. I was doing some testing of some new software in a tuner with a FT-897 rig. Figured using the 5-band Hex-Beam on 40 and 80 m to "stress" the tuner would be a good test.

Happily, the tuner found a 1:1 match at 3.5 MHz (and over the entire 75 & 80 m bands if you retuned). Similar on 40 m. I made some daytime 40 m Q's from my QTH in Alabama to IL, KY, and WI. All were amazed that my signal (100 W) was about the same as the others in the group. Seemed to be maybe an S-unit or so of F/B too.

Early the other night I decided to give 80-m CW a try for a few minutes. To my surprise, I made several contacts and got nice signal reports. The F/B was noticeable though less than on 40 m. Fact it worked at all is interesting. W6HB has made some comparisons with his HB and Hortical antennas on 75 m as I recall with good results.

I need to give it a try later at night and see what DX I can work. Regretably, I have no other antennas at the site where the Hex-Beam is located for a direct comparison.

David down in VK-land has also played with his 5-band hex-beam on bands outside the 10-20 m range. Works for him too.

73,
Barry - W4WB

1135. Re: [hex-beam] 80-m CW

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-20 15:09:11 UTC
From: IslPilot@aol.com
Topic: 1134 Message: 1135

Barry:

Now you are saying that I don't have to restring my 160 M Loop under my new Hex-Beam? I just got my new HX5B up last week and have been having so much fun with the DX on the upper bands that I did not experiment with trying to load it below 20 Meters. I believe my serial # is 241.

I have been very relieved at the propagation at the 70' level on my tower. If I am handicapped by being this high, I can suffer for a while with the "limited" performance. South Korea and Japan with the 817 had me really grinning! The Grey-line propagation has been awesome. Now I know that the propagation has been good but it has never been that good for me QRP. I find it curious that most stations give me a better signal report by a couple of units than I give them....

Does anyone on the list have some experience with the 40M Hex? Has anyone tried loading a 40M hex on 80M?

Best Regards,

Paul Baron
KB8VWV
Charlevoix, MI

1136. Re: [hex-beam] 80-m CW

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-20 17:16:57 UTC
From: Eric Carling
Topic: 1134 Message: 1136

Can I just check one thing? Is there any danger of damaging the Hexbeam by loading it on 40 / 80? Would there be a power limit?

Having read your post, I just tried tuning mine on 80m and it receives better than the GAP Titan! But I haven't tried to work anyone yet as I'm not sure what that might do to the beam.

Eric.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 20 November 2002 05:11:53
To: hex-beam@yahoogroups.com
Subject: [hex-beam] 80-m CW

Thought it might be of interest to share a recent odd-ball operating experience. I was doing some testing of some new software in a tuner with a FT-897 rig. Figured using the 5-band Hex-Beam on 40 and 80 m to "stress" the tuner would be a good test.

Happily, the tuner found a 1:1 match at 3.5 MHz (and over the entire 75 & 80 m bands if you retuned). Similar on 40 m. I made some daytime 40 m Q's from my QTH in Alabama to IL, KY, and WI. All were amazed that my signal (100 W) was about the same as the others in the group. Seemed to be maybe an S-unit or so of F/B too.

Early the other night I decided to give 80-m CW a try for a few minutes. To my surprise, I made several contacts and got nice signal reports. The F/B was noticeable though less than on 40 m. Fact it worked at all is interesting. W6HB has made some comparisons with his HB and Hortical antennas on 75 m as I recall with good results.

I need to give it a try later at night and see what DX I can work. Regretably, I have no other antennas at the site where the Hex-Beam is located for a direct comparison.

David down in VK-land has also played with his 5-band hex-beam on bands outside the 10-20 m range. Works for him too.

73,
Barry - W4WB

To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

.

[Non-text portions of this message have been removed]

1137. Re: [hex-beam] 80-m CW

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-20 18:12:51 UTC
From: IslPilot@aol.com
Topic: 1134 Message: 1137

Just got off the phone with Mike Traffie and he suggested not putting any large amounts of power to the antenna. He didn't think it would be hurt at the barefoot level but said that they have had some insulators returned that exhibited some RF burning. He decided not to ask any questions of the owner as to his operations. He said that they have not experimented with transmitting out of band with the HX5B themselves, but he says that the 40M hex was 2 to 3 S units better than the HX5B receiving on 40M. He had some pretty good stories about the performance of the 40M Hex leading to insomnia!

Might be my next investment for the Spring. Still would like to hear from some 40M Hex users.

Paul
KB8VWV
Charlevoix, MI

1138. Re: 80-m CW

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-20 21:30:15 UTC
From: w4wb
Topic: 1134 Message: 1138

Hi Paul & Eric,

Well Paul, I would still put up that 160 m antenna! Also, I would not operate the HX-5B at more than 100-200 W since the impedance is really "strange" on 40 and 80 m. Use a 259B and you will see what I mean. IOW, I agree with Mike.

If you can do some A/B comparisions with the GAP and HX-5B on 80 & 40 m, that would be interesting. BTW, George at GAP died yesterday. :-((

Mike ran the tests of the HX-5B and his 40 m HB at my suggestion some months ago. His tests of the 40 m HB against a dipole at the same height (in the past) and the recent comparision of the HB-5B and the 40 m HB indicate that the HX-5B is about the same or a bit poorer than a dipole. Mike's test didn't have the two Hex-beam at the same height simply due to it being a quick test of what was up at the time, so YMMV. Heck, if the HB-5B is even close to a dipole on 40 and 80 m, I will be happy enough. Extra bands for "free."

I also note that I have used it on 6 m too with good results. Lucky for me that the band was opened when I was making the test!

73,
Barry - W4WB

--- In hex-beam@y..., "Eric Carling" <g0cg1@u...> wrote:
> Can I just check one thing? Is there any danger of damaging the Hexbeam by
> loading it on 40 / 80? Would there be a power limit?
>
> Having read your post, I just tried tuning mine on 80m and it receives
> better than the GAP Titan! But I haven't tried to work anyone yet as I'm not
> sure what that might do to the beam.
>
> Eric.
>

1139. Playing on 30 m with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-21 00:35:19 UTC
From: w4wb
Topic: 1139 Message: 1139

I had a few minutes this afternoon to experiment again with the HX-5B on 30 m. Many months ago, I gave it a go and found that it worked, but haven't really used it at all since then on 30 m.

It is a bit touchy to tune using the internal tuner of the FT-1000MP, but it did tune and the SWR meter on the MP indicated about 1.2:1.

At first I listened mostly and observed about 1.5 to 2 S-units of F/B. There was a bit of QSB, so who knows. In any case, it wasn't like a vertical.

I made several contacts and each gave me a 599, and commented that my signal was really good even after they learned that I was "misusing" my old Hex-Beam. When I have time to use it at night (HB is at my office), I think that will be a good test.

David (VK-lander) has reported working a fair amount of DX on 30 m using his 5-band homebrew hex-beam. In fact, David was the one that got the "misuse" of the HB started. Thanks David! :-)

When you are tuning up, I suggest that you back off on the power until you get the match about right and then kick the power up.

GL on lower-band DX with your HB es 73,
Barry - W4WB

1140. Re: Playing on 30 m with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-21 00:41:34 UTC
From: ad1y1
Topic: 1139 Message: 1140

Barry,

30 meters was a band I had never been on until a few days ago.

Worked CY0MM on 30 meters with the Hex Beam.

That was a pretty big kick!

Take care and

73,

Tony, AD1Y

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> I had a few minutes this afternoon to experiment again with the HX-
5B
> on 30 m. Many months ago, I gave it a go and found that it worked,
> but haven't really used it at all since then on 30 m.
>
> It is a bit touchy to tune using the internal tuner of the FT-
1000MP,
> but it did tune and the SWR meter on the MP indicated about 1.2:1.
>
> At first I listened mostly and observed about 1.5 to 2 S-units of
> F/B. There was a bit of QSB, so who knows. In any case, it wasn't
> like a vertical.
>
> I made several contacts and each gave me a 599, and commented that
my
> signal was really good even after they learned that I
was "misusing"
> my old Hex-Beam. When I have time to use it at night (HB is at my
> office), I think that will be a good test.
>
> David (VK-lander) has reported working a fair amount of DX on 30 m
> using his 5-band homebrew hex-beam. In fact, David was the one
that
> got the "misuse" of the HB started. Thanks David! :-)
>
> When you are tuning up, I suggest that you back off on the power
> until you get the match about right and then kick the power up.
>
> GL on lower-band DX with your HB es 73,
> Barry - W4WB

1141. Re: Playing on 30 m with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-21 01:53:03 UTC
From: w4wb
Topic: 1139 Message: 1141

Way to go Tony. What are you using to load up the Hex-Beam on 30 m? Any observations of F/B for example? I'm curious what having up at 70 or 75' as you do makes on 30 m. Bet it is better than being at my 35 or so feet.

I have got CY0MM on all bands and modes now except 30 and 80 m. I understand that they were working on the 80 m antenna this afternoon. Lots of stormy wx there whichj is making it hard to get the antennas up.

73,
Barry - W4WB

--- In hex-beam@y..., "ad1y1" <ad1y@a...> wrote:
> Barry,
>
> 30 meters was a band I had never been on until a few days ago.
>
> Worked CY0MM on 30 meters with the Hex Beam.
>
> That was a pretty big kick!
>
> Take care and
>
> 73,
>
> Tony, AD1Y
>

1142. NH2PW is Smoking the DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-21 05:12:59 UTC
From: w4wb
Topic: 1142 Message: 1142

My friend Phil NH2PW in Guam has been operating his FT-817 and HX-5B for less than a month now. He wrote me today to announce that he has worked over 100 entities already with his new QRP station. I'm sure that his QTH has something to do with it too. ;-)

The arm-strong rotor has recently been replaced by an electrical one. Phil said that the arm-strong method got real old, real quick!

If you need Guam, send him an email. Address is on his post of OCT 27.

73,
Barry - W4WB

1143. Re: [hex-beam] NH2PW is Smoking the DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-21 11:19:27 UTC
From: Buzz & Quinta
Topic: 1142 Message: 1143

Phil, NH2PW, now has a QSL manager. Another HexBeam owner, Buzz-N5FTR, is now doing that duty
for Phil. He is having a great time with the new HexBeam, although a strong storm just took his mast
down and he is waiting for a replacement.

73,
Buzz-N5FTR
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Wednesday, November 20, 2002 11:12 PM
Subject: [hex-beam] NH2PW is Smoking the DX

My friend Phil NH2PW in Guam has been operating his FT-817 and HX-5B
for less than a month now. He wrote me today to announce that he has
worked over 100 entities already with his new QRP station. I'm sure
that his QTH has something to do with it too. ;-)

The arm-strong rotor has recently been replaced by an electrical
one. Phil said that the arm-strong method got real old, real quick!

If you need Guam, send him an email. Address is on his post of OCT
27.

73,
Barry - W4WB

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[Non-text portions of this message have been removed]

1144. Re: Playing on 30 m with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-21 12:32:53 UTC
From: ad1y1
Topic: 1139 Message: 1144

Barry,

I simply used the rig's internal antenna tuner on 30 meters. Made the contact on the first call.

I don't know which was a bigger kick: working a new entity, or making a contact on a band I had never been on before, using a mode I rarely use.

I haven't spun the antenna around on 30 meters yet, but I'll check it out and report back on whatever I find regarding F/B.

I've since worked them on 15, 17 and 20, but that 30 meter contact was very satisfying in its own way!

Take care.

73,

Tony, AD1Y

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Way to go Tony. What are you using to load up the Hex-Beam on 30 m?
> Any observations of F/B for example? I'm curious what having up at
> 70 or 75' as you do makes on 30 m. Bet it is better than being at
my
> 35 or so feet.
>
> I have got CY0MM on all bands and modes now except 30 and 80 m. I
> understand that they were working on the 80 m antenna this
> afternoon. Lots of stormy wx there whichj is making it hard to get
> the antennas up.
>
> 73,
> Barry - W4WB
>
> --- In hex-beam@y..., "ad1y1" <ad1y@a...> wrote:
> > Barry,
> >
> > 30 meters was a band I had never been on until a few days ago.
> >
> > Worked CY0MM on 30 meters with the Hex Beam.
> >
> > That was a pretty big kick!
> >
> > Take care and
> >

> > 73,
> >
> > Tony, AD

1145. Out of band Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-21 20:47:04 UTC
From: David Douglass
Topic: 1145 Message: 1145

Hi Barry,

Just to add to your experiences, I found that that the 5 band Hex had great performance on 30M, and I worked a fair amount of DX on all continents. Strangely enough when I switched the feed system to single band switching the performance deteriorated greatly, which suggests that the more wire you have up their the better.

Managed to work a little DX on 40M, but performance was way down on a 1/4wave vertical, and 80M was next to useless from here. I suppose for you guys in the US, it may be worth trying 80M as you will have lots more people in a workable area!!.

Also I think your comments on keeping the power down are very wise, although I had no issues with the exception of blowing a capacitor in the internal ATU when trying to tune on 80M (a failing with Kenwood TS570's).

Regards and hope to CU all in the contest at the weekend.

David, VK2DPD
vk2dpd@...

1146. Re: Out of band Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-21 22:48:16 UTC
From: w4wb
Topic: 1145 Message: 1146

Hi David,

I think I agree with you about the more wire the better. Over the weekend, I plan to give 40 and 80 m a try. I have worked Europe on 40 m, but not sure just how well that compares. Eric has the Titan and the HX-5B so maybe he will do a 40 m comparison. Tnx agn for sharing your original experiments with us. Oh yes, in playing more today on 30 m, I was really pleased at the evident directivity of the antenna. Signal reports were FB.

Take care and hope to hear in the the contest too. I just give points since I never have the time to make a good run of it (expect for Field Day where our club came in 9th overall). :-)

Barry - W4WB

--- In hex-beam@y..., "David Douglass" <david.douglass@o...> wrote:
> Hi Barry,
>
> Just to add to your experiences, I found that that the 5 band Hex had great
> performance on 30M, and I worked a fair amount of DX on all continents.
> Strangely enough when I switched the feed system to single band switching
> the performance deteriorated greatly, which suggests that the more wire you
> have up their the better.
>
> Managed to work a little DX on 40M, but performance was way down on a
> 1/4wave vertical, and 80M was next to useless from here. I suppose for you
> guys in the US, it may be worth trying 80M as you will have lots more people
> in a workable area!!.
>
> Also I think your comments on keeping the power down are very wise, although
> I had no issues with the exception of blowing a capacitor in the internal
> ATU when trying to tune on 80M (a failing with Kenwood TS570's).
>
> Regards and hope to CU all in the contest at the weekend.
>
> David, VK2DPD

> vk2dpd@q...

1147. Re: [hex-beam] Re: Out of band Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-22 01:39:46 UTC
From: Jason Hissong
Topic: 1145 Message: 1147

I am glad that I seen this...I have a TS570D(G) myself and would hate to do that to it... I will keep 80M to my dipole and vertical. BTW... just got back from the variance hearing and got approved to put the roof tower up (17.5'). This would put the Hexbeam at 32 feet with the 20M element at about 34-35'. Whoohoo! Cannot wait to stretch her legs.

73
Jason Hissong
N8XE

> Hi Barry,
>
> Just to add to your experiences, I found that that the 5 band Hex
had great
> performance on 30M, and I worked a fair amount of DX on all
continents.
> Strangely enough when I switched the feed system to single band
switching
> the performance deteriorated greatly, which suggests that the more
wire you
> have up their the better.
>
> Managed to work a little DX on 40M, but performance was way down on
a
> 1/4wave vertical, and 80M was next to useless from here. I suppose
for you
> guys in the US, it may be worth trying 80M as you will have lots
more people
> in a workable area!!.
>
> Also I think your comments on keeping the power down are very wise,
although
> I had no issues with the exception of blowing a capacitor in the
internal
> ATU when trying to tune on 80M (a failing with Kenwood TS570's).
>
> Regards and hope to CU all in the contest at the weekend.
>
> David, VK2DPD
> vk2dpd@q...

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[Non-text portions of this message have been removed]

1148. Newbie with a question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-22 05:40:23 UTC
From: John Herzog
Topic: 1148 Message: 1148

Hello, I've just gotten interested in the Hex Beam antenna and I'm all agog with wonder and ignorance.

I've seen pictures of the HEX-BEAM (Model HX-5B) from Traffie Technology at K8AC's fine website and I noted that the coax plugs into the top of the 'mast'. Is there any reason it could not just as well feed all the wires from the bottom of the 'mast'?

Thank you.

73 de John VE3DOP

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.417 / Virus Database: 233 - Release Date: 11/8/2002

[Non-text portions of this message have been removed]

1149. Hup plate monbander

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-22 07:38:54 UTC
From: philipon4qr
Topic: 1149 Message: 1149

What is the size of the 6 corner alu.hub plate?
How tick is the plate?

73
philip,on4qr

1150. Re: Newbie with a question

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-22 08:14:45 UTC
From: w4wb
Topic: 1148 Message: 1150

Yes. He tried it both ways and determined top feeding was better.

Welcome to the Group John.

73,
Barry - W4WB

--- In hex-beam@y..., "John Herzog" <jherzog@h...> wrote:
> Hello, I've just gotten interested in the Hex Beam antenna and I'm
all
> agog with wonder and ignorance.
>
> I've seen pictures of the HEX-BEAM (Model HX-5B) from Traffie
Technology
> at K8AC's fine website and I noted that the coax plugs into the top
of
> the 'mast'. Is there any reason it could not just as well feed all
the
> wires from the bottom of the 'mast'?
>
> Thank you.
>
> 73 de John VE3DOP
>
> ---
> Outgoing mail is certified Virus Free.
> Checked by AVG anti-virus system (http://www.grisoft.com).
> Version: 6.0.417 / Virus Database: 233 - Release Date: 11/8/2002
>
>
>
> [Non-text portions of this message have been removed]

1151. P5/4L4FN now QRT Permanently as of 22 Nov 2002

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-24 14:48:23 UTC
From: w4wb
Topic: 1151 Message: 1151

Ed P5/4L4FN was informed by the P5 Radio Regulations Board on Friday evening (22nd) that he was to cease all radio operations, take down all antennas, and remove all radio equipment. Saturday, he complied and that afternoon, officials came by and seal all of the boxes. He was instructed to take the boxes with him on the 10th of December when he again goes to Beijing for R&R.

The Hex-Beam and mast some of us provided him really help Ed to make more contacts and with those in areas that had been little worked before.

It is thought that Ed will be next stationed in another good DX country soon and he will have good gear to get started with there.

Best wishes ED!

73,
Barry - W4WB

1152. P5-Ed!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-25 20:21:15 UTC
From: David Douglass
Topic: 1152 Message: 1152

Yes, was sad news! I wonder how long it will be before we hear North Korea on the air again??

David

vk2dpd@...

1153. Re: P5-Ed!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-25 21:59:13 UTC
From: w4wb
Topic: 1152 Message: 1153

--- In hex-beam@y..., "David Douglass" <david.douglass@o...> wrote:
> Yes, was sad news! I wonder how long it will be before we hear
North Korea
> on the air again??
>
> David
>
> vk2dpd@q...

I suggest that it will be after "reunification," and then I guess
that it will be a new entity and no more P5 or HL. The model would
be East & West Germany perhaps. No guess on the time line.

At the same time, the situation in the Spratly Is. may be getting
resolved as perhaps for Scarborough Reef.

It is interesting how politics keeps amateur radio lively by changing
things and, as a group, DXers know their geography probably better
than others! Since DXCC started there are about 60 deleted entities,
a number of added entities, and LOTS of name changes.

73,
Barry - W4WB

1154. Hexbeam Masts

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-25 02:16:06 UTC
From: richlim11
Topic: 1154 Message: 1154

Hello all. I have been thinking about a hexbeam for sometime now, and after reading the numerous favourable posts here on the reflector, I think that I will make the investment this Xmas. I plan on purchasing a HXP for use at field day and to try at my home QTH, hopefully, if it meets approval with the XYL, it can replace my attic mounted antennas!! I was wondering if anyone has or uses Mike's masts which he sells on the website. For field day the portable mast would be great and for my home, I hope to be able to mount the sturdier mast on my upstairs bedroom Juliette balcony. Any comments from the group?
Thanks. Rich KQ9L

1155. Re: [hex-beam] Hexbeam Masts

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-25 22:41:33 UTC
From: b3s7a00@aol.com
Topic: 1154 Message: 1155

I suggest TV type steel mast with TV rotator. (Sturdy to 40' with multiple sets of guys)

To erect, use a step ladder, and lean it up, remove step ladder when vertical.

[Non-text portions of this message have been removed]

1156. Hex and contesting

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-26 13:09:36 UTC
From: lz2be
Topic: 1156 Message: 1156

Hello friends,

I could say that Hex beam is a very usefull contest antenna. I had 950 QSO at LZDX contest two weeks ago, when I used my home brew Hex for first time. My setup was FT890AT + 1Kw, 160/80/40m Vertical, 20/15/10m Hex beam.
The results on CQWW CW are:

```
--MULT---
BAND QSO'S DUPS POINTS DXCC ZONE SCORE
---- ----- ---- ------ ---- ---- ---------
160 42 0 52 28 7 1820
80 174 0 234 54 10 14976
40 520 0 816 81 24 85680
20 339 0 579 61 20 46899
15 464 0 846 93 28 102366
10 464 0 1116 95 32 141732
---- ------ ----- ------ ---- ---- ---------
TOT: 2003 0 3643 412 121 1941719
```

I had to turn the antenna only in case of big pileup. The Hex was pointing mostly to Asia at morning time and to USA/EU at afternoon. The main advantage of Hex is that you can hear a station from any direction and then to turn it to the right direction if necessary. If you have a big monobander you will loose such a DX or you will need second, omnidirectional antenna to check if somebody is calling you.

I have a question to homebrewers:
Did somebody checked what is the difference between top and bottom feeding of 5Band Hex? I'm with bottom feeding for practical reasons and becasue the modeling doesn't show any difference.

Best 73 de Bob, LZ2BE

1157. Fw: Hexbeam Masts

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-27 17:02:53 UTC
From: Chuck Bridges
Topic: 1157 Message: 1157

I am using one of Mike's HDX-30 masts in a ground-mounted application with a
HX5-Bi. I have the mast sitting on top of a Yaesu G800-DXA rotator with is fastened to a length of steel pipe sunk into the ground and backfilled with concrete. I use two sets of guys (per the illustrations in the instructions) using 3/16" dacron rope. By the way, the mast comes to two top sections -- I chose the shorter section, so the mast is about 26 feet tall, plus the heigth of the rotator and mounting pipe.

The setup has been up about two months and so far I am very happy with it. We have pretty strong winds here (there are "wind farms" just down the road), so I check the tension on the guy ropes at least once a week. No problem.

This is my first antenna installation using a telescoping mast, so comparisons are tough, but the mast seems to be extremely well made. Erecting the mast is a three man job. My wife and I erected it by ourselves, and frankly, I risked the installation by doing so.

Good luck on your project and have fun!

Chuck Bridges, AK6DV

1158. 30 meter linear loaded hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-28 17:13:41 UTC
From: b3s7a00@aol.com
Topic: 1158 Message: 1158

Just a question, here,
Would it be possible to have a linear loaded 30
meter set of elements on a multi banded hex, with 20 met. as the lowest
non-loaded band?

I think the spacing would be incorrect, but I may be wrong.
I am not an antenna guru, but I have heard that driven / director
combinations require less spacing.
Any help appreciated, Tony, KC0LND

By the way, The other night, my home-brew hex had a f/b of about 12 dB. when
I first tried it out.

[Non-text portions of this message have been removed]

1159. Re: [hex-beam] Fw: Hexbeam Masts

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-28 19:51:42 UTC
From: Ed Fox
Topic: 1157 Message: 1159

Be sure to use the new locking pins with a ring on each end, on that HDX-30 mast. The old pins with a ring on just one end may come out. 73's, Ed, N0OQ.

>From: "Chuck Bridges" <AK6DV@...>
>Reply-To: hex-beam@yahoogroups.com
>To: "Hex-Beam Yahoo Group" <hex-beam@yahoogroups.com>
>Subject: [hex-beam] Fw: Hexbeam Masts
>Date: Wed, 27 Nov 2002 09:02:53 -0800
>
> I am using one of Mike's HDX-30 masts in a ground-mounted application
>with
>a
> HX5-Bi. I have the mast sitting on top of a Yaesu G800-DXA rotator with
>is
> fastened to a length of steel pipe sunk into the ground and backfilled
>with
> concrete. I use two sets of guys (per the illustrations in the
> instructions) using 3/16" dacron rope. By the way, the mast comes to two
> top sections -- I chose the shorter section, so the mast is about 26 feet
> tall, plus the heigth of the rotator and mounting pipe.
>
> The setup has been up about two months and so far I am very happy with
>it.
> We have pretty strong winds here (there are "wind farms" just down the
> road), so I check the tension on the guy ropes at least once a week. No
> problem.
>
>This is my first antenna installation using a telescoping mast, so
> comparisons are tough, but the mast seems to be extremely well made.
> Erecting the mast is a three man job. My wife and I erected it by
> ourselves, and frankly, I risked the installation by doing so.
>
> Good luck on your project and have fun!
>
> Chuck Bridges, AK6DV
>
>
>
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>hex-beam-unsubscribe@yahoogroups.com
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>
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1160. New toy!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-30 02:18:39 UTC
From: richlim11
Topic: 1160 Message: 1160

Well gang, I gave myself an early Xmas present! I ordered an
Hexbeam Portable with the TDX 30 mast!! I really plan on using
it for field day, but as the Skywarn SE is coming up next week, I
thought I should get the beam earlier and put it to the test! I also
hope to be able to temporarily mount the antenna and mast to
my balcony off my bedroom. Has anyone done this and if so any
pearls of wisdom you wish to share? Also what type of guy rope
are you folks using, Radioworks has some kevlar stuff and mil
spec dacron, again any comments? Thanks in advance!
Rich
KQ9L

1161. Re: New toy!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-30 02:44:50 UTC
From: w4wb
Topic: 1160 Message: 1161

Congratulations Rich! For guy rope, I like the Synthetic Textiles 3/16" from AES. It is first-class for this purpose. Just guy the mast well! Also, use the ferrite bead balun.

I am QRV in Atlanta for a few days and wish I had a portable HB. Am using a Buddipole configured as a vertical dipole with the feed at about 25'. It works great, but the HB would be sooo much better! hi hi

73,
Barry - W4WB

--- In hex-beam@y..., "richlim11" <kq9l@a...> wrote:
> Well gang, I gave myself an early Xmas present! I ordered an
> Hexbeam Portable with the TDX 30 mast!! I really plan on using
> it for field day, but as the Skywarn SE is coming up next week, I
> thought I should get the beam earlier and put it to the test! I
also
> hope to be able to temporarily mount the antenna and mast to
> my balcony off my bedroom. Has anyone done this and if so any
> pearls of wisdom you wish to share? Also what type of guy rope
> are you folks using, Radioworks has some kevlar stuff and mil
> spec dacron, again any comments? Thanks in advance!
> Rich
> KQ9L

1162. Re: Playing on 30 m with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-30 03:27:24 UTC
From: aep002
Topic: 1139 Message: 1162

Hi Guys,

After reading this message thread, I decided to try my HX5BI on 30 just for grins. The swr was just less than 3:1 with NO tuner, and the Yaesu FT890 AT auto tuner brought it down close to 1:1 in a few seconds. So far I only used it so receive 1 station, but at times that station was stronger than on my G5RV by 1/2 to 1 s unit. I am confident it will work as a transmitting antenna and will try it the next time I feel like working 30. My Hex beam is at 30 feet.

73,

NF1A
--- In hex-beam@y..., "ad1y1" <ad1y@a...> wrote:
> Barry,
>
> I simply used the rig's internal antenna tuner on 30 meters. Made the
> contact on the first call.
>
> I don't know which was a bigger kick: working a new entity, or making
> a contact on a band I had never been on before, using a mode I rarely
> use.
>
> I haven't spun the antenna around on 30 meters yet, but I'll check it
> out and report back on whatever I find regarding F/B.
>
> I've since worked them on 15, 17 and 20, but that 30 meter contact was
> very satisfying in its own way!
>
> Take care.
>
> 73,
>
> Tony, AD1Y
>
>
> --- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> > Way to go Tony. What are you using to load up the Hex-Beam on 30 m?
> > Any observations of F/B for example? I'm curious what having up at

> > 70 or 75' as you do makes on 30 m. Bet it is better than being
at
> my
> > 35 or so feet.
> >
> > I have got CY0MM on all bands and modes now except 30 and 80 m.
I
> > understand that they were working on the 80 m antenna this
> > afternoon. Lots of stormy wx there whichj is making it hard to
get
> > the antennas up.
> >
> > 73,
> > Barry - W4WB
> >
> > --- In hex-beam@y..., "ad1y1" <ad1y@a...> wrote:
> > > Barry,
> > >
> > > 30 meters was a band I had never been on until a few days ago.
> > >
> > > Worked CY0MM on 30 meters with the Hex Beam.
> > >
> > > That was a pretty big kick!
> > >
> > > Take care and
> > >
> > > 73,
> > >
> > > Tony, AD

1163. Re: Playing on 30 m with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-30 16:55:16 UTC
From: w4wb
Topic: 1139 Message: 1163

--- In hex-beam@y..., "aep002" <apizer@a...> wrote:
> Hi Guys,
>
> After reading this message thread, I decided to try my HX5BI on 30
> just for grins. The swr was just less than 3:1 with NO tuner, and
the
> Yaesu FT890 AT auto tuner brought it down close to 1:1 in a few
> seconds. So far I only used it so receive 1 station, but at times
> that station was stronger than on my G5RV by 1/2 to 1 s unit. I am
> confident it will work as a transmitting antenna and will try it
the
> next time I feel like working 30. My Hex beam is at 30 feet.
>
> 73,
>
> NF1A

Hey, maybe several of us could set up a sked for a 30 m QSO using
the "un"Hex-Beams.

73,
Barry - W4WB

1164. Re: Playing on 30 m with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-11-30 23:17:25 UTC
From: kg4eqd
Topic: 1139 Message: 1164

> the "un"Hex-Beams.

Wouldn't that be Hex-"un"-Beams? HexBeamNots?

Sorry.....I couldn't resist....

73, W4KAZ

1165. Re: Playing on 30 m with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-01 01:38:32 UTC
From: w4wb
Topic: 1139 Message: 1165

Hmmmm..... good point! Maybe extra-Hex-Beam is a better descriptor since we are using the antenna outside of its intended operating bands. Also not a bad term for those who are of a paronomastic nature either --- extra "hex-beams." ;-)
73,
Barry - W4WB

--- In hex-beam@y..., "kg4eqd" <kazeringue@a...> wrote:
> > the "un"Hex-Beams.
>
> Wouldn't that be Hex-"un"-Beams? HexBeamNots?
>
> Sorry.....I couldn't resist....
>
> 73, W4KAZ

1166. Re: Playing on 30 m with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-01 03:46:49 UTC
From: w6hb
Topic: 1139 Message: 1166

C'mon, Barry. It's got to be the HextraBeam or a function
thereof! 73 - Doug - W6HB

--- In hex-beam@y..., "w4wb" <w4wb@a...> wrote:
> Hmmmm..... good point! Maybe extra-Hex-Beam is a better
descriptor
> since we are using the antenna outside of its intended operating
> bands. Also not a bad term for those who are of a paronomastic
> nature either --- extra "hex-beams." ;-)
> 73,
> Barry - W4WB
>
> --- In hex-beam@y..., "kg4eqd" <kazeringue@a...> wrote:
> > > the "un"Hex-Beams.
> >
> > Wouldn't that be Hex-"un"-Beams? HexBeamNots?
> >
> > Sorry.....I couldn't resist....
> >
> > 73, W4KAZ

1167. Re: Playing on 30 m with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-01 12:03:45 UTC
From: kg4eqd
Topic: 1139 Message: 1167

Okay, HexTraBeam is good.

How about HexBeamPlus for those Ten Tec users?

Okay, I apologize to all for derailing a useful thread....

73, W4KAZ

1168. Re:HexTraBeam -- Playing on 30 m with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-01 13:42:12 UTC
From: w4wb
Topic: 1139 Message: 1168

Okay Doug, you struck a home run with this one IMO. :-)

Good grief, I just noticed that your form has the Tra from Traffie in it too. Funny. Anyway, guess HexTraBeam is now in the Hexicon.

I have been away from my Hex-Beam for almost a week and the XYL can tell. hi hi The vertical dipole I am using while portable is a very good performer, but not like the Hex-Beam.

73,
Barry - W4WB

--- In hex-beam@y..., "kg4eqd" <kazeringue@a...> wrote:
> Okay, HexTraBeam is good.
>
> How about HexBeamPlus for those Ten Tec users?
>
> Okay, I apologize to all for derailing a useful thread....
>
> 73, W4KAZ

1169. RE: [hex-beam] Re: Playing on 30 m with the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-01 23:10:28 UTC
From: John Herzog
Topic: 1139 Message: 1169

But seriously folks, has anyone modeled an HX5B on EZNEC or something similar to see what the gain and pattern figures are? I'd love to seem 'em.

73 de John VE3DOP

-----Original Message-----
From: kg4eqd [mailto:kazeringue@...]
Sent: Sunday, December 01, 2002 7:04 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Playing on 30 m with the HX-5B

Okay, HexTraBeam is good.

How about HexBeamPlus for those Ten Tec users?

Okay, I apologize to all for derailing a useful thread....

73, W4KAZ

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hex-beam-unsubscribe@yahoogroups.com

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Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.422 / Virus Database: 237 - Release Date: 11/20/2002

1170. Re: Modeling the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-02 02:37:21 UTC
From: w4wb
Topic: 1139 Message: 1170

--- In hex-beam@y..., "John Herzog" <jherzog@h...> wrote:
> But seriously folks, has anyone modeled an HX5B on EZNEC or
something
> similar to see what the gain and pattern figures are? I'd love to
seem
> 'em.
>
> 73 de John VE3DOP

John,
Look in the files area. Holger took a stab at the 5-band version. Several models have been made of the monobander. Look at the copy of the Japanese Mag 59 in the files area. Also, LB Cebik looked at several antennas including a hex-beam like antenna in an article in AntennX. No one has tried to model the HX-5B operating on 30 m. It is clear that there are serious interaction between the element in this case (David VK2DPD showed this when he tried with a single feed and separate feed to each band --- only the single feed worked well on 30 m).
73,
Barry - W4WB

1172. Some model comparisons

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-04 18:57:30 UTC
From: Jason Hissong
Topic: 1172 Message: 1172

Hi guys,

I have been using MMANA (what a great free program) to do some comparison results between the 5 band hex model that was uploaded to the files section (thanks!!) and other beam models. I also compared the hexbeam to a dipole as well. I will write this up in a report to upload to the file section. Here are some of my initial findings with the following notes up front:

1. I am not an antenna expert.
2. MMANA uses MININEC
3. Frequency used was 14.050Mhz with all models.
4. All Antenna heights are 10M (the low end of the recommended height for the hex beam which can represent a compromised situation)
5. Antenna models used are a full size 2 element 20M beam, full size 3 element 20M beam, full size 20M dipole, and 5B hexbeam model by LZ2BE
6. Ground setup is Dielec: 13.0, conductivity: 5mS/m

This may not be the most accurate and scientific comparison, but one ham's attempt to get a good idea of the different antennas (and justify me spending the money.. hehehehe) I also wanted to do the comparison in a compromised installation with short towers, roof towers, etc.

Here is what I have found:

Antenna Gain (at maximum radiation angle):
Antenna - Gain - difference from previous listed model

3EL beam - 11.61dBi
2EL beam - 10.60dBi (- 1.01dB)
Hexbeam - 9.96dBi (- 0.64dB)
Dipole - 6.89dBi (- 3.07dB)

From these figures, the Hexbeam is about 1.65db less than a 3element beam. The Hexbeam is .64 db less than a 2 element beam however, it makes up for it in F/B.

F/B

3EL beam - 23.44dB
Hexbeam - 9.84dB (-13.6dB)
2EL beam - 6.60dB (-3.24dB)

From these results we can see that the Hexbeam does better in front to back compared to a 2EL beam. A 3EL beam seems to be a ton better

for this which would make sense. The elevation angle for these antennas:

Elev:
Hexbeam - 25.4dg
3EL beam - 26.8dg (-1.4dg)
2EL beam - 27.4dg (-0.6dg)
Dipole - 29.8dg (-2.4dg)

Here you can see that the hexbeam has the lowest angle of radiation compared to the other antennas. For long haul DX, a low radiation angle is better, so I attempted to get an idea of the gain at 10dg for each antenna. This way, you are comparing the antennas at the same angle:

10dg Gain and F/B figures (sorted by gain):
3EL beam - 7.01dBi, 20.05dB
2EL beam - 5.86dBi, 1.86dB (-1.15dB, -18.19dB)
Hexbeam - 5.71dBi, 5.59dB (-0.15dB, +3.73dB)
Dipole - 1.58dBi, n/a (-4.13dB, n/a)

The gain between the 2EL and Hexbeam are essentially the same, however, F/B ratio is still better. The three element beam pulls way out in front at regards of F/B and is only 1.3dB better in gain compared to the Hexbeam. The Hexbeam is still 4.13dB better in gain than the dipole. The hexbeam beats the 2EL beam hands down in F/B.

Initial conclusions:

For the ham who has a TV or a roof tower at 35-40ft, these results can give you an idea of what you can expect. Again, these are models and your results may vary. Real world performance cannot be modelled accurately but this can give you a starting point. From the results above, a 3EL beam is clearly the winner in all aspects (except for maximum radiation angle, but what really matters is what can it do at lower angles). So the real comparison is between the 2EL beam and the hexbeam. The hexbeam definately does better in F/B and only is marginally worse than the 2EL beam in gain.

If you are upgrading from a dipole, the hexbeam and 2EL beam is a good step in the right direction. The Hexbeam delivers 4.13dB of gain at 10dg over a dipole at similar heights.

When considering a beam, you may want to remember what the Hexbeam can give you. It is better in gain and F/B on 12,17M compared to small beams like the F12 C3SS. I have no practical experience with the F12 beam, however, a ham friend down the street from me does have one on a 40' tower. When my beam is up, we will do comparisons. An alternative to the HX5B is the 6 band beam from T.G.M. communications (MQ36SR). It provides gain on all bands as well and is cheaper. It is 26lbs and the turning radius is 8'3". Wind load is 3.1 sq ft. The gain figures on their site does not tell you what height their

beam is when comparing it to a full size dipole at 25'. From my estimations (from modelling) the antenna would have to be around 20M height for those figures. The T.G.M. antenna may be comparable with the 3EL model I used, but I am sure it would be worse because the T.G.M antenna is shortened. It uses hats at the end of the elements to get it to resonate. (Of course, this would warrant further investigation).

I think the Hexbeam is still the way to go for me for ease of installation. I used to have an MQ1 that I was going to use and it looked like it did not hold up well at all to the weather. Especially the tuning spokes. They broke off very easily.

Anyways, let me know if I missed anything or if I am way off base. Use this information at your own risk! :-)

73,
N8XE

1173. Re: Some model Comparisons

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-05 16:58:06 UTC
From: Andrea & Chuck Bridges
Topic: 1173 Message: 1173

Jason:

Thanks for the doing the work! Your results certainly make sense and give me a starting point for judging my Hex-Beam.

73!

Chuck Bridges, AK6DV

1174. Re: Some model comparisons

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-05 17:14:00 UTC
From: floyd+sense
Topic: 1172 Message: 1174

--- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> Hi guys,
>
> I have been using MMANA (what a great free program) to do some
> comparison results between the 5 band hex model that was uploaded
to
> the files section (thanks!!) and other beam models. I also
compared
> the hexbeam to a dipole as well. I will write this up in a report
to
> upload to the file section. Here are some of my initial findings
> with the following notes up front:
>
> 1. I am not an antenna expert.
> 2. MMANA uses MININEC
> 3. Frequency used was 14.050Mhz with all models.
<snip>>

One thing to remember: While the SWR of the 5 band model is reasonably flat across the bands, the F/B ratio and forward gain are not. For example, high in the phone band on 20 meters, there is very little front to back difference on my HX-5B. So, if one is buying the HexBeam primarily for SSB operation, you can expect to see much less f/b ratio than shown in your model. That's still not bad in comparison to other 5 band beams that might have too high an SWR at the other end of the band to even operate.

K8AC
HexBeam #18

1175. Re: Some model comparisons

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-05 17:46:39 UTC
From: Brian Badger
Topic: 1172 Message: 1175

Also of note is the fact that most hams experience with a "3 element 20M beam" is with a trapped tribander -- and trapped tribanders are hard pressed to perform as well as a 2 element monobander in terms of gain, particularly after a year in the elements.
--
Brian N0KZ

--- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> 3 element 20M beam, full size 20M dipole, and 5B hexbeam model by
> LZ2BE

1176. Re: [hex-beam] Some model comparisons

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-05 17:57:08 UTC
From: John L Pantaloni
Topic: 1172 Message: 1176

An interesting comparison but I would like to see how the hex compares at the upper end (phone) part of the band where gain and f/b decrease. My hx5i has only fair f/b (10 to 12db) on the phone portion of 20 meters. JOHN W3UX

1177. Re: [hex-beam] Re: Some model comparisons

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-05 22:57:33 UTC
From: Jason Hissong
Topic: 1172 Message: 1177

Good point. I primarily operate at the bottom of the bands anyway (CW and digital) so for my needs it fits the bill. For SSB, your right. The F/B is not as good. For the prospecting buyer, if you want SSB, you can have them build it to the part of the band you want.

Thanks guys

Jason Hissong N8XE

On Thu, 2002-12-05 at 12:14, floyd+sense wrote: --- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
> Hi guys,
>
> I have been using MMANA (what a great free program) to do some
> comparison results between the 5 band hex model that was uploaded
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> the files section (thanks!!) and other beam models. I also
compared
> the hexbeam to a dipole as well. I will write this up in a report
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> upload to the file section. Here are some of my initial findings
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K8AC
HexBeam #18

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1178. Holger's Tip Spacings

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-05 02:57:09 UTC
From: w5kde
Topic: 1178 Message: 1178

Has anybody built a hexbeam to Holger's design shown in his powerpoint document?
I am in the middle of building one and have noticed that his tip spacings are different than those calculated using Mike Traffie's formula. Not so much the 'exact' dimensions but rather the driven to reflector ratios. For example; Holger's tip spacings for the driven element are shorter than the tip spacings for the reflector. The formula comes up with longer tip spacings for the driven element and shorter for the reflector. I'm guessing that what's really important is the effective distance between the two element ends?
It just seems that if you swap the spacing dimensions, the bends and tensions on the spreaders will be less balanced.
If Holger's dimensions are proven in practice to be correct, what is the 'B' dimension..... is it the combined lengths of the tip spacings, or is it the effective distance between the element ends?

1179. Re: [hex-beam] Holger's Tip Spacings

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-06 07:53:10 UTC
From: Boian Petkov
Topic: 1178 Message: 1179

Hello my friend,

the distance "A" is a tip spacing for reflector and "B" is a sum of both driven + reflector. In
this case you will see that these spacings are almost the same calculated with Mike's formula.

73 de Bob, LZ2BE

--- w5kde <w5kde@...> wrote:
> Has anybody built a hexbeam to Holger's design shown in his
> powerpoint document?
> I am in the middle of building one and have noticed that his tip
> spacings are different than those calculated using Mike Traffie's
> formula. Not so much the 'exact' dimensions but rather the driven to
> reflector ratios. For example; Holger's tip spacings for the driven
> element are shorter than the tip spacings for the reflector. The
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> is the effective distance between the two element ends?
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> tensions on the spreaders will be less balanced.
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> spacings, or is it the effective distance between the element ends?
>
>
>

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1180. Re: Some model comparisons

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-06 11:29:47 UTC
From: on4ccw
Topic: 1172 Message: 1180

--- In hex-beam@y..., "Jason Hissong" <jhisson1@c...> wrote:
Hello Jason , very interesting report! I also checked the MMANA program after downloading it. Very nice program, unfortunately , i could only download the french manual(i speak some french). You wouldn't happen to have an englisch version?I also checked the linked russian web page with other antenna models, but they are not in *maa- file type , so i guess you just can not transfer them in the wanted file-map. Can you help me out?
Thanks
Peter
ON4CCW
> Hi guys,
>
> I have been using MMANA (what a great free program) to do some
> comparison results between the 5 band hex model that was uploaded
to
> the files section (thanks!!) and other beam models. I also
compared
> the hexbeam to a dipole as well. I will write this up in a report
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> for the hex beam which can represent a compromised situation)
> 5. Antenna models used are a full size 2 element 20M beam, full
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> 3 element 20M beam, full size 20M dipole, and 5B hexbeam model by
> LZ2BE
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> This may not be the most accurate and scientific comparison, but
one
> ham's attempt to get a good idea of the different antennas (and
> justify me spending the money.. hehehehe) I also wanted to do the
> comparison in a compromised installation with short towers, roof
> towers, etc.
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> Here is what I have found:
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> beam. The Hexbeam is .64 db less than a 2 element beam however,
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> F/B
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> Here you can see that the hexbeam has the lowest angle of
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> compared to the other antennas. For long haul DX, a low radiation
> angle is better, so I attempted to get an idea of the gain at 10dg
> for each antenna. This way, you are comparing the antennas at the
> same angle:
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> 10dg Gain and F/B figures (sorted by gain):
> 3EL beam - 7.01dBi, 20.05dB
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> Initial conclusions:
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> When considering a beam, you may want to remember what the Hexbeam
> can give you. It is better in gain and F/B on 12,17M compared to
> small beams like the F12 C3SS. I have no practical experience
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> the F12 beam, however, a ham friend down the street from me does
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> one on a 40' tower. When my beam is up, we will do comparisons.
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> (MQ36SR). It provides gain on all bands as well and is cheaper.
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> The gain figures on their site does not tell you what height their
> beam is when comparing it to a full size dipole at 25'. From my
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> height for those figures. The T.G.M. antenna may be comparable
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> T.G.M antenna is shortened. It uses hats at the end of the
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> to get it to resonate. (Of course, this would warrant further
> investigation).
>
> I think the Hexbeam is still the way to go for me for ease of

> installation. I used to have an MQ1 that I was going to use and
it
> looked like it did not hold up well at all to the weather.
> Especially the tuning spokes. They broke off very easily.
>
> Anyways, let me know if I missed anything or if I am way off
base.
> Use this information at your own risk! :-)
>
> 73,
> N8XE

1181. Re: [hex-beam] Holger's Tip Spacings

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-07 05:01:53 UTC
From: b3s7a00@aol.com
Topic: 1178 Message: 1181

I am tempted to claim that the actual distance from the spreader to the wire tip isn't critical, because of the non conductor nature of the spreaders. I would say that the uneven distances are to normalize distances between spreader tips, (because the reflector is longer than the driven element, and hence requires less distance to the spreaders to maintain symmetry). I would, however, say that the actual distance between the ends of the wires.... (Represented by the dotted line) is critical.

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KEEP IN MIND..... I am NOT an expert! This is JUST my take on the issue, and may just be some crazy delusion on my part.

Tony,,, KC0LND

[Non-text portions of this message have been removed]

1182. Tip Spacing

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-07 09:13:14 UTC
From: David Douglass
Topic: 1182 Message: 1182

Remember that Holgers design is for a 5 band beam and the Calculations on Mike Traffies paper for a mono-bander (at least this is the case on the paper I have read buy Mike). These dimensions are quite different.

I think if you stick to Holgers design you won't go wrong far wrong.

David, VK2DPD

vk2dpd@...

1183. mast fiasco

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-07 23:56:52 UTC
From: b3s7a00@aol.com
Topic: 1183 Message: 1183

Hello.
The hexbeam project just took a major turn for the worse.
Today, an attempt was made to elavate the antenna on to the top of its 35 foot mast.
The method was as follows:
-Mast (1.24'' TV style) supported by extension ladder extended to appx. 30'.
-Mast tied with ladder with quick release knots thet can be remotely untied by pulling on a string.
-supported with step ladder so antenna spreaders are not in contact with the ground.
-rope tied to top of extension ladder (not mast) and wrapped around a distant tree so the rope can be tightened, and then used to "rachet" up te mast so the people lifting can take a break.
-2 people "walk" ant. up.
-when vertical, 2 sets of 3 guys fastened to guy anchors (2 ft X 3 in. augers)
-ladder removed
(thus ends plan)
after the ant. was vertical, and the guys temporarily tied down, a tree branch obstructing the outside perimiter of the ant. was discovered.
since the branch was 30 feet up, it couldnt be readily removed.
(The branch was barely in contact with the wire, and only extended appx. 3 ft above it. (I have video tape of this stage, but no photographs)
The descision was made to cut the branch off at the highest reachable altitude (20 feet, using pole pruner, and step ladder.)
when the branch was severed, the branch tangeled itself in the wire. the heavy (10 foot) section of tree pulled on the mast. Because the guys were only temporarily tied down, they slipped. The tree pulled on the mast, and fell to an altitude of approximately 15 feet. The mast buckled in a "c" pattern.... 90 degrees divded over the entire length of the mast. A last ditch effort was made to save the ant, and mast by removing the 2 guys opposite the direction the antenna fell. The step ladder ws once again employed, and the hub of the hex was pushed so it was directly over the base.
the center set of guys experienced the greatest slippage. the center guy in the direction of the fall (opposite the direction of the bend) was to be pulled to restore the mast to a straight position. something gave, however, when the total bend angle was appx. 60 deg., and the mast came crashing down in a direction 90 deg. ccw from the origional fall direction. "luckily" the descent was slowed by tree branches, and the physical integrity of the beam remained realitivley unharmed. the ant was disentangeled, the guys removed, and the mast dissasembled. It is now once again in its position leaning against the railing on the deck. I will also require re- tuning.
Another attempt to raise the ant in a simmilar fashion will be attempted in the spring, but in the meantime, I intend to put the ant up 10 feet in my backyard for the remainder of the winter.

Ok..... well see how it goes from here.
73 -Tony KC0LND

[Non-text portions of this message have been removed]

1184. Re: mast fiasco

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-08 01:05:06 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1183 Message: 1184

--- In hex-beam@yahoogroups.com, b3s7a00@a... wrote:
> Hello.
> The hexbeam project just took a major turn for the worse.
> <snip>
Another attempt to raise the ant in a simmilar fashion will be
attempted in
> the spring, but in the meantime, I intend to put the ant up 10 feet
in my
> backyard for the remainder of the winter.
> Ok..... well see how it goes from here.
> 73 -Tony KC0LND

Wow Tony. What a bummer of an experience! Only good news in your story is that no one was hurt (and that the Hex-Beam is okay).

In my experience, I have found that trees hate antennas. I have had them pretend to be out of the way and then up comes a big storm. Wind gets strong and the trees reach out their limbs to attack my antennas! So it sounds like some serious tree trimming is in order. ;-)

I don't know what mast you are using, but if it is the one from Radio Shack, you might consider overlapping the sections about 2', drill a through hole, and then bolt together. This will help stiffen it a lot.

GL in the spring!

73, Barry - W4WB

1185. Re: mast fiasco

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-08 16:50:38 UTC
From: Andrea & Chuck Bridges
Topic: 1183 Message: 1185

Wow, what a horror story. This is the kind of experience that lurks out there for all of us and shows that even well planned operations can go awry. I will echo Barry's thoughts, thankfully, no one was hurt.

If you were in my area, I would offer you a couple of cool malt beverages (no, not the antenna type!).

73 de Chuck AK6DV

1186. Re: Holger's Tip Spacings

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-09 01:18:13 UTC
From: w5kde <w5kde@arrl.net>
Topic: 1178 Message: 1186

--- In hex-beam@yahoogroups.com, Boian Petkov <lz2be@y...> wrote:
> Hello my friend,
>
> the distance "A" is a tip spacing for reflector and "B" is a sum of
both driven + reflector. In
> this case you will see that these spacings are almost the same
calculated with Mike's formula.
>
> 73 de Bob, LZ2BE
>
> --- w5kde <w5kde@a...> wrote:
> > Has anybody built a hexbeam to Holger's design shown in his
> > powerpoint document?
> > I am in the middle of building one and have noticed that his tip
> > spacings are different than those calculated using Mike Traffie's
> > formula. Not so much the 'exact' dimensions but rather the driven
to
> > reflector ratios. For example; Holger's tip spacings for the
driven
> > element are shorter than the tip spacings for the reflector. The
> > formula comes up with longer tip spacings for the driven element
and
> > shorter for the reflector. I'm guessing that what's really
important
> > is the effective distance between the two element ends?
> > It just seems that if you swap the spacing dimensions, the bends
and
> > tensions on the spreaders will be less balanced.
> > If Holger's dimensions are proven in practice to be correct, what
is
> > the 'B' dimension..... is it the combined lengths of the tip
> > spacings, or is it the effective distance between the element
ends?
> >
> >
> >

That was the conclusion that I had come to Bob, looks like Holgers
design might have a typo with regard to the tip spacing.

Tony's post (KC0LND): also makes the point that I was trying to
make.... at and that is, for the best symmetry, the reflector tip
spacing should probably be shorter.

Thanks for the feedback gentlemen

Ken

>
>
> _____
> Do you Yahoo!?
> Yahoo! Mail Plus - Powerful. Affordable. Sign up now.
> http://mailplus.yahoo.com

1187. Re: Tip Spacing

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-09 01:33:51 UTC
From: w5kde <w5kde@arrl.net>
Topic: 1182 Message: 1187

--- In hex-beam@yahoogroups.com, "David Douglass"
<david.douglass@o...> wrote:
> Remember that Holgers design is for a 5 band beam and the
Calculations on
> Mike Traffies paper for a mono-bander (at least this is the case on
the
> paper I have read buy Mike). These dimensions are quite different.
>
>
> I think if you stick to Holgers design you won't go wrong far wrong.
>
> David, VK2DPD
>
>
>
>
> vk2dpd@q...

I had picked up on the formula variences David... Obviously the 5
band beam is a complex beast to design.
Back calculating from Holgers element lengths to determine the
formula constants, comes up with different constants for each band.
Not knowing what part or the band the elements were cut for also
doesn't help of course :-)
I fully intended to follow Holgers design to the letter David (with
the possible swapping of the tip lengths), until I read the posts
about the F/B ratio problem if the beam is not cut for your intended
operating frequency (CW or SSB).
Have you built Holgers design, and what is it cut for, CW or SSB
portion of the bands?

Ken (W5KDE)

1188. I had a nice QSO with EI7BA using my Hexbeam for 10 & 15 meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-10 17:55:05 UTC
From: gdguy21 <gdguy21@yahoo.com>
Topic: 1188 Message: 1188

I didn't at first reognize the connection he had with the Hexbeam. John wrote a neat article on the homebrew hexbeam that I had read before deciding to purchase one of Mike's beams.

This duo antenna is working out well. It withstood 50 mile an hour winds beautifully last month.

More reports to come.

Howard

1189. Re: mast fiasco

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-10 18:15:23 UTC
From: aep002 <apizer@attbi.com>
Topic: 1183 Message: 1189

Suggestion:

Glad no one was hurt in your antenna raising mis-hap.

If your extention ladder, which you appeared to use as a raising fixture, can be spared temporarily or permanently, why not use the ladder AS the mast instead of the awkward telescoping TV mast. You can attach a piece of galvinized pipe to two or three rungs of the ladder and mount the beam and rotor to the mast (field day style). You can use TV antenna mount U bolts and clamps -- I used two different size clamps to configure a right angle mounting method, 4 clamps per rung and 2 U bolts per rung. I actually discarded the TV U bolts and replaced them w / zinc plated ones from my hardware store, using only the clamps provided. You'll have to come up with a guying and base mounting method for your particular situation. You should replace the ladder's pulley with a heavier duty one (can attach with U bolt) if you choose to use a ladder mast.

I cut down a LOT of sapling trees to make room for my installation and had a professional tree service come in and remove a high pine branch which was overhanging the antenna, before could break off in a snow storm and trash the antenna.

See my message # 1089 for my success story.

73,

Art
NF1A
--- In hex-beam@yahoogroups.com, b3s7a00@a... wrote:
> Hello.
> The hexbeam project just took a major turn for the worse.
> Today, an attempt was made to elavate the antenna on to the top of its 35
> foot mast.
> The method was as follows:
> -Mast (1.24'' TV style) supported by extension ladder extended to appx. 30'.
> -Mast tied with ladder with quick release knots thet can be remotely untied
> by pulling on a string.
> -supported with step ladder so antenna spreaders are not in contact with the
> ground.
> -rope tied to top of extension ladder (not mast) and wrapped around a distant

> tree so the rope can be tightened, and then used to "rachet" up te
mast so
> the people lifting can take a break.
> -2 people "walk" ant. up.
> -when vertical, 2 sets of 3 guys fastened to guy anchors (2 ft X 3
in.
> augers)
> -ladder removed
> (thus ends plan)
> after the ant. was vertical, and the guys temporarily tied down, a
tree
> branch obstructing the outside perimiter of the ant. was discovered.
> since the branch was 30 feet up, it couldnt be readily removed.
> (The branch was barely in contact with the wire, and only extended
appx. 3 ft
> above it. (I have video tape of this stage, but no photographs)
> The descision was made to cut the branch off at the highest
reachable
> altitude (20 feet, using pole pruner, and step ladder.)
> when the branch was severed, the branch tangeled itself in the
wire. the
> heavy (10 foot) section of tree pulled on the mast. Because the
guys were
> only temporarily tied down, they slipped. The tree pulled on the
mast, and
> fell to an altitude of approximately 15 feet. The mast buckled in
a "c"
> pattern.... 90 degrees divded over the entire length of the mast. A
last
> ditch effort was made to save the ant, and mast by removing the 2
guys
> opposite the direction the antenna fell. The step ladder ws once
again
> employed, and the hub of the hex was pushed so it was directly over
the base.
> the center set of guys experienced the greatest slippage. the
center guy in
> the direction of the fall (opposite the direction of the bend) was
to be
> pulled to restore the mast to a straight position. something gave,
however,
> when the total bend angle was appx. 60 deg., and the mast came
crashing down
> in a direction 90 deg. ccw from the origional fall
direction. "luckily" the
> descent was slowed by tree branches, and the physical integrity of
the beam
> remained realitivley unharmed. the ant was disentangeled, the guys
removed,
> and the mast dissasembled. It is now once again in its position

leaning
> against the railing on the deck. I will also require re- tuning.
> Another attempt to raise the ant in a simmilar fashion will be
attempted in
> the spring, but in the meantime, I intend to put the ant up 10 feet
in my
> backyard for the remainder of the winter.
> Ok..... well see how it goes from here.
> 73 -Tony KC0LND
>
>
> [Non-text portions of this message have been removed]

1190. Homebrew portable hex for 6 and ten meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-20 06:05:25 UTC
From: gschumac1 <gschumac1@yahoo.com>
Topic: 1190 Message: 1190

Hello all.

I have read almost every one of the posts here, to the point where I almost feel I know some of you people. HI. Unfortunately I am moving into a new home at the end of January so there is really little that I can do at the moment as far as decent antennas are concerned. Also unfortunately the new QTH has some restrictions that could limit my installation of ham antennas. I should have checked it out more thoroughly before I bought I guess however it was a good buy and exactly what I was looking for, other than for the antenna restictions.

I wanted to try the hex beam so I decided that I would build a 10 meter takedown version and then add six meters to it after just to get a feel for the interaction between the elements. I devised an easy to disassemble (I hope) design and have taken pictures of it as I go along, if for no other reason than to add to the information already here. Some others might be interested in building a version that easily disassembles.

I have a huge hill just to the east of me and I live on Vancouver Island which is about as far west as a person can get and still be in Canada. LOL This means that I have only got a decent shot at America to the south and then across the pacific to the west which limits me . I seldom hear much activity on ten (or any of the bands), unless it is coming in from directly south or from the West. I have made the hub and fastened the ridgid part of the spreaders to it and tomorrow (today by the time you read this likely) I plan to assemble the remaining (takedown) part of the spreaders and the elements. I am very anxious to see just how it works.

10 has always been my favorite band so I am hoping to catch a few stations over the next few days. The antenna will be pointed south (no rotator - too much trouble since I have to remove it all in 4 weeks or so)

I have a beautiful 3 element cubical quad that has occupied space in my crawl space (under house) for the last ten years and as much as I wish I could put it up, it is not going to be possible for a while. That Quad really works and I puzzle at anyone claiming they are hard to tune. (perhaps I was just lucky - LOL) Perhaps with the hex, painted to camoflage it, I will be able to get away with having a decent antenna that will provide the opportunity to make some contacts. I have only a random length wire and a vertical dipole for 10 meters up now.

Best of all, my new QTH (in Feb) is part way up the side of a mountain and I will have an open shot at the North, the east and to the south.

Unfortunatly I will have to hop over the mountain with a signal in order to work west, however this is far far better than what I have had for the last 3 years. I had been thinking of a GAP vertical but was still researching when I came across this reflector. My thanks to all who have posted here and provided such a wealth of information.

Garry -- VE7AJJ

1191. Homebrew Hex for Six and ten M

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-21 03:49:06 UTC
From: gschumac1 <gschumac1@yahoo.com>
Topic: 1191 Message: 1191

Good day to all. Here is a follow up on my attempt to build a portable, 10 m band, hex beam. Yesterday I manufactured a hub assembly and a means of connecting the spreader rods to the hub by using a simple slip together method. Today I completed the assembly and tested the beam on 10 m. I took pictures of each step as I went through the construction. I did not complete the beam installation until after dark tonight so I will get the final pictures of the hex beam tomorrow during the daylight. It is now installed above the roof of my house at a height of the approximately 25 feet. I got it up just in time to catch the dying moments of the 10 m band. I was able to make contact with a JA station (JA2GPR) and my signal report from him was 5 3 -- 5 4. When I said 73 to him a Z L. station called me, but the JA station was still on the frequency running a strong 5 9 signal and the Z L. was simply too weak to pull out of the qrm and relocate to another freg..

Some observations that I will make pertaining to this hex beam antenna:

1. I was totally amazed at the S. W. R. of the antenna. I designed the beam to operate on the frequency of 28.5 MHz and the S. W. R. at that frequency is 1.3: 1. The S. W. R. at the frequency of 28.3 MHz is less than 1.5:1. The S. W. R. at the frequency of 28.8 MHz is 1.1:1. I did absolutely no trimming whatsoever.

2. The antenna definitely exhibits a measure of directivity. When pointed to the south powerline noise is approximately 1 S. unit. When pointed to the West, the powerline noise is approximately 4 S. units. (This observation was made while the antenna was still sitting in a garbage can on the deck behind my house. This is the location I had to use to build the antenna.) Once the antenna was elevated to above the roof, the powerline noise was substantially reduced. At that height I am slightly above the height of the powerline's. I did not install a rotator under the antenna. Basically my options are to aim into the south or to the West. Directly to the east of me is a large hill that must be at least 400 feet in height. I have an extremely difficult time to hear or work any stations directly east of me. The other factors that influenced me not to put up a rotator is the fact that I will be moving to a new Q. T. H. at the end of January, so I will be taking down the hex beam in about a month.

3. I had the opportunity to compare the hex beam on receive against a 10 m vertical dipole and an end fed inverted L. that I use for all the lower bands. With the hex beam located on the deck well below the height of the other two antennas signals were at times equivalent but mostly less than those received on the other two antennas. Once the hex beam was elevated to its location above the roof I was able to

discern a definite improvement over the vertical dipole and in many cases an improvement, though less, over the inverted L. antenna. (Because of the length, the inverted L. antenna likely exhibits a certain amount of gain on 10 m). Without a rotator it is a difficult to ascertain what degree of directivity I am getting. I'll leave that until I am able to re-establish myself at my new location.

4. When I transmit on 10 m I totally wipe out the television. We are using a satellite system and the antenna is installed about 10 feet directly in front of the satellite dish. I did not install a balun at the time I installed the antenna, there again. it was because of the limited length of time that the antenna will actually be up over this house. Also I do not watch television, particularly during the daytime, if at all. The wife watches television after the evening meal and the 10 m band often has died about that time so frankly I don't see a problem with this and can live with it for the next month.

5. It was my intention to install a 6 m beam within the 10 m beam but I likely won't bother with that until I get relocated to my new location. And when I do get settled in I expect to build an entirely new antenna that will at least have the 15 m band on it and possibly even a 20 m band.

Basically I am pleased with the performance of this hex beam. I seriously doubt that it would compare very favorably with my three element quad (packed away in crawl space right now) however it is decidedly a tremendous improvement over what I have been using (vertical dipole). One thing I truly like about it is its small size. Nobody would ever consider that three element quad to be even the slightest bit "stealthy" but this thing has a really great chance of remaining unobserved.

Garry - Ve7ajj

1192. New to the group

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-21 01:39:36 UTC
From: Paulo Marcondes
Topic: 1192 Message: 1192

Hello,

I?m new to this group, my name is Paulo Marcondes (PU2PIX), from S?o Paulo, Brazil.

I like to tinker with antennas, and this kind of hex-beam seems worth a try...

I first read about them on EI7BA's pages...I also read a lot on the group's home page.

lets have fun!

BTW,

seasons greetings

73

Paulo Marcondes

1193. tuning HX-5 beam.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-21 16:08:45 UTC
From: Bernie_Gardner <w1az@arrl.net>
Topic: 1193 Message: 1193

I have a Traffie HX-5 antenna. I had to do a little reconstruction and while it basically works, the minimum swr is offset, particularly on 20m. I have the cw elements, but the minimum swr is around 14250 and swr is over 2:1 at 14000. I can't see anything obviuos and the only thing I can imagine is that I got the spacing of the elements wrong. Is it possible someone could send me the correct spacings? (0r make any other suggestions?)

Thanks

Bernie

W1AZ

1194. (no subject)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-22 00:04:10 UTC
From: Garry Schumacher <gschumac1@yahoo.com>
Topic: 1194 Message: 1194

More observations with the hex-beam:

Today I had a bit more opportunity to check out the hex beam against my 2 other antennas. The beam consistantly outperformed the inverted L and the dipole on receive. I could see a difference on average of about 3 S units compared with the vertical. Low level signals disappeared entirely when I switched to the vertical from the hex beam. (Note that the vertical is now lower than the Hexbeam is) The same was true with the inverted L however the "L" outperformed the vertical for the most part, but there was decidedly a difference of 2 or more S-units from the "L" to the Hexbeam.

I am quite pleased with the performance of the Hex on receive at least. I have not had as much success on transmit yet though. I called CQ a number of times on the band without response. I answered a CQ from an Alaska station and received a 5 x 6 report off the back of the beam. The QSO was short though due to QSB. I think the band was just starting to open to the north and still was marginal.

As I type this I am listening to a VK station in a QSO and the VK has a signal of 7+ S-units. I have never been able to hear the VK's or ZL's at that strength previously, at least not from this location. I can't wait to try it with a rotator, to ascertain the directivity. HI.

The antenna is really not the least noticable over the house partly due to the flat black coloration and the fact that the backdrop behind my house is hill and trees. I doubt that anyone driving past would ever notice it. It appears as though it will be ideal for my purposes. Now all I need to do is wait for the move to the new location and cobble up something better (more bands?) for there. Many thanks to all of those who walked this trail before me and shared the information. I have pictures of what I did for any one who might like to see them.

Garry VE7AJJ

1195. (no subject)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-22 05:52:48 UTC
From: w6hb <w6hb@arrl.net>
Topic: 1194 Message: 1195

Welcome to the group. We would welcome seeing your project photos on
the site to share with all. 73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "Garry Schumacher <gschumac1@y...>"
<gschumac1@y...> wrote:
> More observations with the hex-beam:
>
> Today I had a bit more opportunity to check out the hex beam against
> my 2 other antennas. The beam consistantly outperformed the
inverted L
> and the dipole on receive. I could see a difference on average of
> about 3 S units compared with the vertical. Low level signals
> disappeared entirely when I switched to the vertical from the hex
> beam. (Note that the vertical is now lower than the Hexbeam is) The
> same was true with the inverted L however the "L" outperformed the
> vertical for the most part, but there was decidedly a
> difference of 2 or more S-units from the "L" to the Hexbeam.
>
> I am quite pleased with the performance of the Hex on receive at
> least. I have not had as much success on transmit yet though. I
called
> CQ a number of times on the band without response. I answered a CQ
> from an Alaska station and received a 5 x 6 report off the back of
the
> beam. The QSO was short though due to QSB. I think the band was just
> starting to open to the north and still was marginal.
>
> As I type this I am listening to a VK station in a QSO and the VK
has
> a signal of 7+ S-units. I have never been able to hear the VK's or
> ZL's at that strength previously, at least not from this location. I
> can't wait to try it with a rotator, to ascertain the directivity.
HI.
>
> The antenna is really not the least noticable over the house partly
> due to the flat black coloration and the fact that the backdrop
behind
> my house is hill and trees. I doubt that anyone driving past would
> ever notice it. It appears as though it will be ideal for my
purposes.
> Now all I need to do is wait for the move to the new location and
> cobble up something better (more bands?) for there. Many thanks to
all
> of those who walked this trail before me and shared the
information. I

> have pictures of what I did for any one who might like to see them.
>
> Garry VE7AJJ

1196. pictures of ant.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-22 18:50:24 UTC
From: Garry Schumacher <gschumac1@yahoo.com>
Topic: 1196 Message: 1196

Well I uploaded some pictures to an album. I have no idea why they don't come up for display in the proper order however they have mostly been numbered so that the order of construction is apparent.

I could just barely hear a few "G' calls this morning. I don't expect to be able to work any of them from this location, with the dreaded hill to my east. LOL.

I hear California and south western states like gangbusters. Hope to catch some hex beamers on over the next few days. Seasons greetings to all.....

Garry

1197. Hexbeam is now installed..

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-25 04:41:40 UTC
From: Jason Hissong
Topic: 1197 Message: 1197

Hi guys,

Just installed my Hexbeam (finally!) on my tower. Pictures at:

http://www.qsl.net/n8xe/radio/tower_project.html

Merry Christmas!

Jason Hissong
N8XE

1198. Re: Hexbeam is now installed..

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-25 09:38:31 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1197 Message: 1198

Nicely done Jason and FB photos too. The big question is how you ever got your XYL on the roof! Congratulations.

Let us know how the antenna performs for you pse. If my old eyes are seeing correctly, you aren't using a balun. Correct?

Merry Christmas es 73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Jason Hissong" <jhisson1@c...> wrote:
> Hi guys,
>
> Just installed my Hexbeam (finally!) on my tower. Pictures at:
>
> http://www.qsl.net/n8xe/radio/tower_project.html
>
> Merry Christmas!
>
> Jason Hissong
> N8XE

1199. Re: [hex-beam] Re: Hexbeam is now installed..

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-25 14:29:24 UTC
From: Jason Hissong
Topic: 1197 Message: 1199

Right.... what would the balun do for me? If I need one, I can install it....

Jason
----- Original Message -----
From: w4wb <w4wb@...>
To: hex-beam@yahoogroups.com
Sent: Wednesday, December 25, 2002 4:38 AM
Subject: [hex-beam] Re: Hexbeam is now installed..

Nicely done Jason and FB photos too. The big question is how you
ever got your XYL on the roof! Congratulations.

Let us know how the antenna performs for you pse. If my old eyes are
seeing correctly, you aren't using a balun. Correct?

Merry Christmas es 73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Jason Hissong" <jhisson1@c...>
wrote:
> Hi guys,
>
> Just installed my Hexbeam (finally!) on my tower. Pictures at:
>
> http://www.qsl.net/n8xe/radio/tower_project.html
>
> Merry Christmas!
>
> Jason Hissong
> N8XE

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[Non-text portions of this message have been removed]

1200. Re: Hexbeam is now installed..

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-25 17:46:13 UTC
From: Chuck Bridges
Topic: 1197 Message: 1200

Wow, Jason. Great shots and great installation.

When will you be swinging that baby around toward "6" land?

Have fun!

Chuck Bridges, AK6DV

1201. Re: Hexbeam is now installed..

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-25 18:35:35 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1197 Message: 1201

Hi Jason,

It should be thought of as a RF choke to stop current flow on the exterior of the coax shield. You can read more in such books as "Reflections II" by W2DU. I suggest you use 5 or 6 Type 77 or 73 beads just below the base of the Hex-Beam. They shouldn't be any higher. Type 31 is an alternative, but I am not very fond of its lower Curie temperature. Type 43 (what you find mostly) is very good at HF. I had to use a dozen before I got the 73/77 one. Even then, the performance was lesser. If you have more questions, let me know.

BTW, Traffie has stated in the past that a balun isn't necessary with the Hex-Beam; however, he was talking about one for impedance matching. Mike agrees with the RF choke.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Jason Hissong" <jhisson1@c...>
wrote:
> Right.... what would the balun do for me? If I need one, I can
install it....
>
> Jason

1202. [hex-beam] Hexbeam is now installed..

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-25 04:56:48 UTC
From: sysop@bfdin.com
Topic: 1197 Message: 1202

Jason,

Looks good!

Just got my 5-band Hexbeam the other week and haven't had time to work
on it with Christmas and a cold.

Plan on getting to it after the holidays.

Best to you and your family for Christmas and New Years.

- Bill N3LLR

HE>Hi guys,

HE>Just installed my Hexbeam (finally!) on my tower. Pictures at:

HE> http://www.qsl.net/n8xe/radio/tower_project.html

HE>Merry Christmas!

HE>Jason Hissong
HE>N8XE

HE>To unsubscribe from this group, send an email to:
HE>hex-beam-unsubscribe@yahoogroups.com

HE>

HE>Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

1203. Re: [hex-beam] Re: Hexbeam is now installed..RF Chokes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-25 19:20:53 UTC
From: IslPilot@aol.com
Topic: 1203 Message: 1203

Barry:

I ordered the RF Chokes after I got my antenna, and then couldn't wait to get it up so just tightly wrapped 8 turns of the coax directly under the feed point.

Its working great but.....I have the chokes now, would you still recommend me putting them on? What problems do you notice operating if the balun is deficient?

Paul Baron
KB8VWV
HX5B- #261
Charlevoix, MI

[Non-text portions of this message have been removed]

1204. Re: .RF Chokes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-25 20:17:46 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1203 Message: 1204

Hi Paul,

Every installation is a bit different. First, I hope you meant that the choke is below the base of the HB. The coax balun does work, but it is significantly inferior to the ferrite beads in bandwidth alone.

I would suggest that you swap out the coax choke for the beads. I hold my beads in place using heat shrink. The clamp-on type can cause problems down the road.

Problems you may observe sans a RF choke are RFI issues, odd SWR readings, feed line radiation, etc. For example, I would get into the company phone system at times on 17 m even with the earlier Type 43 balun or the coax balun. With the Type 77/73 banum, that problem has gone away.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, IslPilot@a... wrote:
> Barry:
>
> I ordered the RF Chokes after I got my antenna, and then couldn't wait to get
> it up so just tightly wrapped 8 turns of the coax directly under the feed
> point.
>
> Its working great but.....I have the chokes now, would you still
> recommend me putting them on? What problems do you notice operating if the
> balun is deficient?
>
> Paul Baron
> KB8VWV
> HX5B- #261
> Charlevoix, MI
>
>
> [Non-text portions of this message have been removed]

1205. Re: [hex-beam] Re: .RF Chokes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-25 20:44:49 UTC
From: IslPilot@aol.com
Topic: 1203 Message: 1205

Tnx Barry, Merry Xmas!

I will climb up there in the spring and install the chokes. Too cold and too high right now!

Best Regards,

Paul Baron
KB8VWV

[Non-text portions of this message have been removed]

1206. [hex-beam] Re: .RF Chokes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-25 20:53:50 UTC
From: sysop@bfdin.com
Topic: 1203 Message: 1206

Hi Barry,

Where do you buy the type 77/73 banum?

- Bill N3LLR

HE>Hi Paul,

HE>Every installation is a bit different. First, I hope you meant that
HE>the choke is below the base of the HB. The coax balun does work, but
HE>it is significantly inferior to the ferrite beads in bandwidth alone.

HE>I would suggest that you swap out the coax choke for the beads. I
HE>hold my beads in place using heat shrink. The clamp-on type can
HE>cause problems down the road.

HE>Problems you may observe sans a RF choke are RFI issues, odd SWR
HE>readings, feed line radiation, etc. For example, I would get into
HE>the company phone system at times on 17 m even with the earlier Type
HE>43 balun or the coax balun. With the Type 77/73 banum, that problem
HE>has gone away.

HE>73,
HE>Barry - W4WB

HE>--- In hex-beam@yahoogroups.com, IslPilot@a... wrote:
HE>> Barry:
HE>>
HE>> I ordered the RF Chokes after I got my antenna, and then couldn't
HE>wait to get
HE>> it up so just tightly wrapped 8 turns of the coax directly under
HE>the feed
HE>> point.
HE>>
HE>> Its working great but.....I have the chokes now, would you
HE>still
HE>> recommend me putting them on? What problems do you notice
HE>operating if the
HE>> balun is deficient?
HE>>
HE>> Paul Baron
HE>> KB8VWV
HE>> HX5B- #261
HE>> Charlevoix, MI
HE>>
HE>>
HE>> [Non-text portions of this message have been removed]

HE>To unsubscribe from this group, send an email to:
HE>hex-beam-unsubscribe@yahoogroups.com

HE>

HE>Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

1207. Re: .RF Chokes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-25 21:39:10 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1203 Message: 1207

--- In hex-beam@yahoogroups.com, sysop@b... wrote:
> Hi Barry,
>
> Where do you buy the type 77/73 banum?
>
> - Bill N3LLR
>
Hi Bill,

See http://www.amidon-inductive.com/associates_prodselection.htm

I use FB-77-1024. Price is $2 each. I am looking for a direct
source overseas for a better price in bulk.

73,
Barry - W4WB

1208. [hex-beam] Re: .RF Chokes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-26 01:42:14 UTC
From: sysop@bfdin.com
Topic: 1203 Message: 1208

Barry,

Thanks!

- Bill N3LLR

HE>--- In hex-beam@yahoogroups.com, sysop@b... wrote:
HE>> Hi Barry,
HE>>
HE>> Where do you buy the type 77/73 banum?
HE>>
HE>> - Bill N3LLR
HE>>
HE>Hi Bill,

HE>See http://www.amidon-inductive.com/associates_prodselection.htm

HE>I use FB-77-1024. Price is $2 each. I am looking for a direct
HE>source overseas for a better price in bulk.

HE>73,
HE>Barry - W4WB

HE>To unsubscribe from this group, send an email to:
HE>hex-beam-unsubscribe@yahoogroups.com

HE>

HE>Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

1209. Re: [hex-beam] Re: .RF Chokes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-26 03:47:19 UTC
From: Jason Hissong
Topic: 1203 Message: 1209

I should probably put these things on as well... getting RFI in my computer speakers (which usually happens no matter which antenna I use..) The RFI is coming through the amp in the speakers as it goes away when I turn them off.

However... How do you install them when the coax is already up? I have the connector sealed for weather... do they snap on or do you put them on the coax before you put the coax ends on...

Also, do these go around LMR400 cable ok?

Thanks!

Jason
----- Original Message -----
From: w4wb <w4wb@...>
To: hex-beam@yahoogroups.com
Sent: Wednesday, December 25, 2002 4:39 PM
Subject: [hex-beam] Re: .RF Chokes

--- In hex-beam@yahoogroups.com, sysop@b... wrote:
> Hi Barry,
>
> Where do you buy the type 77/73 banum?
>
> - Bill N3LLR
>
Hi Bill,

See http://www.amidon-inductive.com/associates_prodselection.htm

I use FB-77-1024. Price is $2 each. I am looking for a direct
source overseas for a better price in bulk.

73,
Barry - W4WB

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[Non-text portions of this message have been removed]

1210. Re: [hex-beam] Re: Hexbeam is now installed..

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-26 04:33:37 UTC
From: Jason Hissong
Topic: 1197 Message: 1210

Hi Chuck!

Well, just got the rotor aligned and I am ready when you are! :) I am going to be setting up a sched with Doug, W6HB here in the next couple of days... will let you know when..

73!

Jason
----- Original Message -----
From: "Chuck Bridges" <AK6DV@...>
To: "Hex-Beam Yahoo Group" <hex-beam@yahoogroups.com>
Sent: Wednesday, December 25, 2002 12:46 PM
Subject: [hex-beam] Re: Hexbeam is now installed..

> Wow, Jason. Great shots and great installation.
>
> When will you be swinging that baby around toward "6" land?
>
> Have fun!
>
> Chuck Bridges, AK6DV
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

1211. Re: .RF Chokes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-26 05:32:38 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1203 Message: 1211

--- In hex-beam@yahoogroups.com, "Jason Hissong" <jhisson1@c...>
wrote:
> I should probably put these things on as well... getting RFI in my
computer speakers (which usually happens no matter which antenna I
use..) The RFI is coming through the amp in the speakers as it goes
away when I turn them off.
>
> However... How do you install them when the coax is already up? I
have the connector sealed for weather... do they snap on or do you
put them on the coax before you put the coax ends on...
>
> Also, do these go around LMR400 cable ok?
>
> Thanks!
>
> Jason

Jason,
Likely you need to put ferrites on your computer speaker leads
nearest the speaker. The ferrites I specified are a cylinder with a
0.5" hole. Snap-on can cause a problem. Perhaps you can cut the
connector on the shack end, feed the beads and heat shrink up the
coax to to just below the HB baseplate, and then afix the beads and
heat shrink. Put the connector back on the shack end. I don't know
the OD of the LMR400.
73,
Barry

1212. (no subject)

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-25 21:48:53 UTC
From: zl1gdh <zl1gdh@yahoo.com>
Topic: 1212 Message: 1212

Hi Guys...
I have been following the posts for a little while now, and I think I have the necessary info to start my multi band project.
There are one or two questions that I do have however...Maybe some one has answers for me...
I will be building from scratch, (comercial offerings plus freight to ZL land are prohibitively expensive) so wonder if any one has done any work with bamboo sealed with fibreglass tape and resin for the spreaders?
When using the formulae for element lengths, is there an optimum diameter for the wire?
When it comes to building the center pole, what are the advantages or disadvantages of a single feed to parrallell connected elements vs individual feeds from a relay box below the hub.
I like the concept of internal harnessing to studs, but is it necessary to have studs for the reflector elements? (I am considering a full length element possitioned at the center pole with a sadle.)
Finally, in the last few posts there is mention of ferrite cores for building a balun.....Could some one please suggest a supply house which would forward these against a VISA order?
Many thanks in anticipation, and enjoy the festive season.
73 de Graham ZL1GDH

1213. Initial Impressions...

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-26 22:28:39 UTC
From: Jason Hissong
Topic: 1213 Message: 1213

Hi guys,

Well, I have not had much time to play around with this, however, I am noticing something disturbing...

The Hexbeam is noisier than the dipole and as noisy as the vertical. Any idea why?

Thanks!

Jason Hissong
N8XE

1214. Homebrew Hex-Beam in ZL

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-26 22:59:58 UTC
From: David Douglass
Topic: 1214 Message: 1214

Hi Graham,

In answer to your questions..

1. Bamboo coated in fibreglass should work FB, but from previous work I've done on a quad these can be quite heavy. I don't know if there are any cheap supplies of fishing rod blanks over there, but these should be you first option. The total spreader length needs only to be about 10 foot or so, even treated lengths of dowel or PVC pipe could be used. I have used 8 foot lengths of dowel, extended to 10 foot with short lengths of Al tubing)

2. As with all antennas, wire diameter with slightly effect the length of the elements, but the main consideration is that the wire provides a lot of the tension on the spreaders and therefore needs to be strong enough.

3. I tried both single feed and multiple feed, and would recommend the multi-feed system. It's easier, cheaper and in my case, seemed to perform slightly better (although I didn't do any direct comparisons)

4. Your correct, a single length of wire fed through the centre post is fine for the reflector, no need for studs (although these do look pretty)

5. I've ordered ferrite beads and cores direct from the US with VISA, see

http://www.amidon-inductive.com/associates_prodselection.htm (address courtesy of Barry)

alternatively I could give you some addresses in Australia if your interested.

OK, good luck Graham and hope you can assemble the parts. If you haven't already done so, check out the design by Holger, DL7IO in the YahooGroups Files area. This is the best set of plans I've seen for a HomeBrew Hex, and if you stick closely to his overall design, you won't go far wrong.

Regards

David, VK2DPD

vk2dpd@...

1215. Re: [hex-beam] Initial Impressions...

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-26 23:18:05 UTC
From: Barry Baker
Topic: 1213 Message: 1215

haven't noticed that here

i am in the shack if you want to try a qso

i'm listening on 14.214

Barry in Missouri
K0QV

----- Original Message -----
From: Jason Hissong
To: Hex-Beam Yahoo Group
Sent: Thursday, December 26, 2002 4:28 PM
Subject: [hex-beam] Initial Impressions...

Hi guys,

Well, I have not had much time to play around with this, however, I am noticing something disturbing...

The Hexbeam is noisier than the dipole and as noisy as the vertical. Any idea why?

Thanks!

Jason Hissong
N8XE

To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

1216. [Off-Topic?] Relay Boxes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-26 23:59:06 UTC
From: Paulo Marcondes
Topic: 1216 Message: 1216

Hy guys,
Graham has posted a question regarding use of a relay box to feed his antennas...

What I would like to know is how does a relay box perform... Since I?ve read EI7BA's page on his relay box I am considering building myself one.

I would like to hear impressions from those who have tried such system. Is it worth the hassle of building? I am (maybe too much) concerned about putting time into building something that eventually won't work. As I do not have the necessary electrical/electronic expertise, I would not even figure out what is going wrong...

73 de Paulo Marcondes
PU2PIX

1217. Initiall Impressions... continued

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-27 04:17:34 UTC
From: Jason Hissong
Topic: 1217 Message: 1217

Hi gang,

Wanted to let you know that the Hexbeam is performing as expected. I had a quick QSO with Doug, W6HB and it appears to be working fine. It is a little noisier than I expected, however, I am able to notice a difference in F/B, F/S, etc. Also in signal strength. I also noticed how bad my vertical is :) I have an inverted V about 30 feet away from the hexbeam and the feedpoint is about the same height. Also, power lines are also at the same height so I am sure that is the case.

Anyways, I am pleased so far... I contacted a station in Malta with it as my first DX contact. I got a 57. He was also about a 57 as the band was shutting down. On CW, I notice a big difference! Which is exactly what I want.

I have yet to dive into a pileup with it, but that will happen soon! Will let you know how it goes..

I tried to upload my new tower photos to the photos section but it says there is an error when I try to upload...

See ya guys!

Jason Hissong
N8XE

1218. Re: Initiall Impressions... continued

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-27 16:09:05 UTC
From: Garry <gschumac1@yahoo.com>
Topic: 1217 Message: 1218

Hi All. I too find that the atmospheric noise is higher on the Hex beam (mine is homebrew though, not commercial) Still I can hear signals on it that simply disappear completely or become un-intelligible at any rate on the vertical or inverted L. My rig has a preamp on receive on ten m and all that does is increase the signal AND the noise, not really improving intelligiblity but the hex definate seems to improve the signal more than the noise. I seem to recall that there usually is a correspoding increase in atmospheric noise when an antenna peaks near resonance. 73

Garry ve7ajj

> Hi gang,
>
> Wanted to let you know that the Hexbeam is performing as expected. I had a
> quick QSO with Doug, W6HB and it appears to be working fine. It is a little
> noisier than I expected, however, I am able to notice a difference in F/B,
> F/S, etc. Also in signal strength. I also noticed how bad my vertical is
> :) I have an inverted V about 30 feet away from the hexbeam and the
> feedpoint is about the same height. Also, power lines are also at the same
> height so I am sure that is the case.
>
> Anyways, I am pleased so far... I contacted a station in Malta with it as my
> first DX contact. I got a 57. He was also about a 57 as the band was
> shutting down. On CW, I notice a big difference! Which is exactly what I
> want.
>
> I have yet to dive into a pileup with it, but that will happen soon! Will
> let you know how it goes..
>
> I tried to upload my new tower photos to the photos section but it says
> there is an error when I try to upload...
>
> See ya guys!
>
> Jason Hissong
> N8XE

1219. In the shack... sched?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-27 22:39:35 UTC
From: Jason Hissong
Topic: 1219 Message: 1219

Hi guys,

Sitting here cleaning the shack up... let me know if anyone wants to talk
Hex to Hex.. (or not :)

73
Jason
N8XE

1220. [hex-beam] In the shack... sched?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-27 22:47:06 UTC
From: sysop@bfdin.com
Topic: 1219 Message: 1220

Oh hex!

Mine won't be up for another couple of weeks. <grin>

What frequency are you on?

- Bill N3LLR

HE>Hi guys,

HE>Sitting here cleaning the shack up... let me know if anyone wants to talk
HE>Hex to Hex.. (or not :)

HE>73
HE>Jason
HE>N8XE

HE>To unsubscribe from this group, send an email to:
HE>hex-beam-unsubscribe@yahoogroups.com

HE>

HE>Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

1221. Re: [hex-beam] In the shack... sched?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-27 23:03:32 UTC
From: Makoto Tanaka
Topic: 1219 Message: 1221

Hi Jason,

I am listening 28.356 which seems open towards your area.

****
Makoto "Shin" Tanaka
JR1NHD ex. AA2DI, 9V1ZW
<jr1nhd@...>
<jr1nhd@...>
****
----- Original Message -----
From: Jason Hissong
To: Hex-Beam Yahoo Group
Sent: Saturday, December 28, 2002 7:39 AM
Subject: [hex-beam] In the shack... sched?

Hi guys,

Sitting here cleaning the shack up... let me know if anyone wants to talk
Hex to Hex.. (or not :)

73
Jason
N8XE

To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

1222. Re: [hex-beam] In the shack... sched?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-27 23:14:09 UTC
From: Jason Hissong
Topic: 1219 Message: 1222

Bill,

I am wondering what frequency we would be able to use because you are close... maybe I can load this thing up on 40? :)

Jason

----- Original Message -----
From: sysop@...
To: hex-beam@yahoogroups.com
Sent: Friday, December 27, 2002 5:47 PM
Subject: [hex-beam] In the shack... sched?

Oh hex!

Mine won't be up for another couple of weeks. <grin>

What frequency are you on?

- Bill N3LLR

HE>Hi guys,

HE>Sitting here cleaning the shack up... let me know if anyone wants to talk
HE>Hex to Hex.. (or not :)

HE>73
HE>Jason
HE>N8XE

HE>To unsubscribe from this group, send an email to:
HE>hex-beam-unsubscribe@yahoogroups.com

HE>

HE>Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

1223. Re: [hex-beam] In the shack... sched?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-27 23:21:15 UTC
From: Jason Hissong
Topic: 1219 Message: 1223

I was calling but did not hear anything.... thanks for trying!!!

73
Jason
----- Original Message -----
From: Makoto Tanaka
To: hex-beam@yahoogroups.com
Sent: Friday, December 27, 2002 6:03 PM
Subject: Re: [hex-beam] In the shack... sched?

Hi Jason,

I am listening 28.356 which seems open towards your area.

****
Makoto "Shin" Tanaka
JR1NHD ex. AA2DI, 9V1ZW
<jr1nhd@...>
<jr1nhd@...>
****
----- Original Message -----
From: Jason Hissong
To: Hex-Beam Yahoo Group
Sent: Saturday, December 28, 2002 7:39 AM
Subject: [hex-beam] In the shack... sched?

Hi guys,

Sitting here cleaning the shack up... let me know if anyone wants to talk
Hex to Hex.. (or not :)

73
Jason
N8XE

To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

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hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

1224. Re: [hex-beam] In the shack... sched?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-27 23:38:06 UTC
From: Makoto Tanaka
Topic: 1219 Message: 1224

I was out of shack for breakfast. I am calling you now and
will QSY to 21.356 if it is clear.

73 - shin
----- Original Message -----
From: Jason Hissong
To: hex-beam@yahoogroups.com
Sent: Saturday, December 28, 2002 8:21 AM
Subject: Re: [hex-beam] In the shack... sched?

I was calling but did not hear anything.... thanks for trying!!!

73
Jason
----- Original Message -----
From: Makoto Tanaka
To: hex-beam@yahoogroups.com
Sent: Friday, December 27, 2002 6:03 PM
Subject: Re: [hex-beam] In the shack... sched?

Hi Jason,

I am listening 28.356 which seems open towards your area.

****
Makoto "Shin" Tanaka
JR1NHD ex. AA2DI, 9V1ZW
<jr1nhd@...>
<jr1nhd@...>
****
----- Original Message -----
From: Jason Hissong
To: Hex-Beam Yahoo Group
Sent: Saturday, December 28, 2002 7:39 AM
Subject: [hex-beam] In the shack... sched?

Hi guys,

Sitting here cleaning the shack up... let me know if anyone wants to
talk
Hex to Hex.. (or not :)

73
Jason
N8XE

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[Non-text portions of this message have been removed]

1225. Re: [hex-beam] Relay Boxes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-28 00:11:26 UTC
From: David Douglass
Topic: 1225 Message: 1225

Paulo,

Relay boxes work fine as long as you can get relays with a good enough rating to do the job. However, if you are thinking about using one to feed the elements individually on a 5 band Hex-Beam I would recommend against it, as I don't think there is any advantage in feeding the elements seperatly.

Regards

David, vk2dpd

1226. Re: [hex-beam] In the shack... sched?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-28 00:11:43 UTC
From: Jason Hissong
Topic: 1219 Message: 1226

Listened for you, but cannot hear anything....

Maybe during the day...

thanks es 73!
Jason
N8XE

----- Original Message -----
From: Makoto Tanaka
To: hex-beam@yahoogroups.com
Sent: Friday, December 27, 2002 6:38 PM
Subject: Re: [hex-beam] In the shack... sched?

I was out of shack for breakfast. I am calling you now and
will QSY to 21.356 if it is clear.

73 - shin
----- Original Message -----
From: Jason Hissong
To: hex-beam@yahoogroups.com
Sent: Saturday, December 28, 2002 8:21 AM
Subject: Re: [hex-beam] In the shack... sched?

I was calling but did not hear anything.... thanks for trying!!!

73
Jason
----- Original Message -----
From: Makoto Tanaka
To: hex-beam@yahoogroups.com
Sent: Friday, December 27, 2002 6:03 PM
Subject: Re: [hex-beam] In the shack... sched?

Hi Jason,

I am listening 28.356 which seems open towards your area.

****
Makoto "Shin" Tanaka
JR1NHD ex. AA2DI, 9V1ZW
<jr1nhd@...>
<jr1nhd@...>
****
----- Original Message -----
From: Jason Hissong
To: Hex-Beam Yahoo Group

Sent: Saturday, December 28, 2002 7:39 AM
Subject: [hex-beam] In the shack... sched?

Hi guys,

Sitting here cleaning the shack up... let me know if anyone wants to
talk
Hex to Hex.. (or not :)

73
Jason
N8XE

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[Non-text portions of this message have been removed]

1227. D88S Recording on Hexbeam and Dipole

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-28 02:00:44 UTC
From: Jason Hissong
Topic: 1227 Message: 1227

Hi guys,

I contacted D88S on the Hex tonight and I recorded some of his signal for comparisons. You can hear from the recording that the Hexbeam is what enabled me to get the contact. I got him on SSB on the third try... This antenna will actually allow me to work SSB DX now!

The dipole is an inverted V with the feedpoint at 35' and the ends about 10'. The Hexbeam is at 36'. This was done on 15M.

I am hooked!

Recording available at http://www.qsl.net/n8xe/radio/wavs/d88s_hexbeam.mp3

You can also hear from the recording how noisy my Hex is compared to the dipole... but I am not complaining too much! I could not even hear the station on the vertical.

I even heard long path for the first time tonight. I heard a VK4 station louder on long path than on short. Never heard that before.

73 guys!

Jason Hissong
N8XE
Another happy Hexbeam owner

1228. Spreaders for homebrewers

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-28 03:13:07 UTC
From: Garry <gschumac1@yahoo.com>
Topic: 1228 Message: 1228

I was watching the news tonight and they showed the wind blowing out across the golf course. Hmmm. The wind was whipping the flag on the green. I looked up this site

http://www.coursigns.com/golf-course-flag-poles.htm

and discovered that the 8 foot flag pole, one half inch diameter, is $11.50 us and the three quarter inch one is $24.50. It would seem that they might make a durable spreader for a hex beam. Another site had no pricing but indicated that the poles could be had in 10 and 15 ft lengths, better suited for the 20m version.

Thought I might pass that on. Every country must have a golf course and supliers for the golf courses....

Garry Ve7ajj

1229. Re: [hex-beam] In the shack... sched?

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-28 03:25:56 UTC
From: sysop@bfdin.com
Topic: 1219 Message: 1229

Unless we tried long-path? <g>

HE>Bill,

HE>I am wondering what frequency we would be able to use because you are close.

HE>Jason

HE> ----- Original Message -----
HE> From: sysop@...
HE> To: hex-beam@yahoogroups.com
HE> Sent: Friday, December 27, 2002 5:47 PM
HE> Subject: [hex-beam] In the shack... sched?

HE> Oh hex!

HE> Mine won't be up for another couple of weeks. <grin>

HE> What frequency are you on?

HE> - Bill N3LLR

HE> HE>Hi guys,

HE> HE>Sitting here cleaning the shack up... let me know if anyone wants to ta
HE> HE>Hex to Hex.. (or not :)

HE> HE>73
HE> HE>Jason
HE> HE>N8XE

HE> HE>To unsubscribe from this group, send an email to:
HE> HE>hex-beam-unsubscribe@yahoogroups.com

HE> HE>

HE> HE>Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/term

HE> To unsubscribe from this group, send an email to:
HE> hex-beam-unsubscribe@yahoogroups.com

HE> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

HE>[Non-text portions of this message have been removed]

HE>To unsubscribe from this group, send an email to:
HE>hex-beam-unsubscribe@yahoogroups.com

HE>

HE>Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

1230. Golf Flag poles

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-28 13:12:07 UTC
From: David Douglass
Topic: 1230 Message: 1230

Good idea!!

Next time I play a round I'll pop a few in my bag and give them a try.
having them sitting in the hole doesn't improve my aim anyway!!

Regards

David, vk2dpd
vk2dpd@...

1231. Source of Noise

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-28 14:56:15 UTC
From: Jason Hissong
Topic: 1231 Message: 1231

I think I found the source of the noise... Barry, W4WB, suggested that it sounds like power line noise when her heard my sample. I tried a little experiment... I pointed the beam due north where power lines are parallel to the antenna about 50-75' away. Sure enough the noise is high, S5-7. When I point it ESE, there is very little noise, S3. When I point it due south, the noise comes back about S4-5. So it looks like power lines. Ok, now I know what it is, what can I do about it? Even with the noise, this thing rocks.

73,
Jason

1232. RE: [hex-beam] Source of Noise

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-28 15:49:55 UTC
From: Peter's Mail
Topic: 1231 Message: 1232

Jason,

Great to see you're having fun with your Hex Beam!!!!! I experienced the same thing at my QTH - Lot's O noise following the erection of the Hex beam - While my multiband dipole is approx the same height I found both wanted signal level & NOISE appreciable higher with the Hex.

Living by the ocean has its challenges when it comes to power company utilities keeping up with maintenance. I've been working with the power company, ARRL RFI reps and the FCC for about a year and a half to get resolution. The power company has "professional" RFI guy - after a bit of training on my part he does the best he can do. The problem is mostly with the line crews as they operate separately from the power company radio guys and at a snails pace. Instead of coordinating the line guys will respond sometimes months after the PC radio guy has identified potential problem poles/equipment and not have the radio guy involved during the "repair". They don't know if they really repaired the problem or not! It's a vicious cycle.

I original did a drive test with an AM car radio tuned to 1700 KHz - Also an IFR service monitor - AOR 1000 scanner tuned around 135 MHz AM and a couple of other HT's to narrow down locations & poles. I identified 22 locations that ranged from arcing insulators to burning branches etc. Gave them the list and the game started. At one point they responded months later that it was not their problem to fix!!!! Mr. Riley from the FCC reversed that via official letter supported by the ARRL's help. And yes, I got action for a few weeks and a lot of yada yada in a letter from one of the PC Directors. That was over six months ago. Two weeks before xmas I received a call from the PC radio guy that he had a scheduled meet with the line crew one week b4 xmas - well of course nothing so far. They have fixed some but many other problems still exist.

Several things you can do in the interim while the PC reacts would be a Timewave ANC-4 DSP unit - touchy to tune but sometimes very effective - A clear speak DSP speaker would be another item to mask the problem.

Do go out and identify ALL possible noise sources - Start in your own home first! Shut down ALL AC power to your HOME including anything that may run on batteries like alarm system - Run your rig on DC and bring up each AC circuit one at a time. Once you've documented any noise sources internal then arm your self with 1.5 MHz AM thru 500 MHz receiving equipment and walk / drive the neighborhood. Write down pole numbers and a description of each noise identified. Report this to your PC ASAP and insist on a number or call back from the Radio Interference group of the PC within 24 hours - Keep accurate notes of ALL conversations and discoveries including names, dates/times and commitments. Subscribe to the rfi@... list

server and read ALL achieves.

Good Luck and welcome to the world of HF

73

REN WB3FSR

> -----Original Message-----
> From: Jason Hissong [mailto:jhisson1@...]
> Sent: Saturday, December 28, 2002 09:56
> To: Hex-Beam Yahoo Group
> Subject: [hex-beam] Source of Noise
>
> I think I found the source of the noise... Barry, W4WB, suggested that it
> sounds like power line noise when her heard my sample. I tried a little
> experiment... I pointed the beam due north where power lines are parallel
> to
> the antenna about 50-75' away. Sure enough the noise is high, S5-7. When
> I
> point it ESE, there is very little noise, S3. When I point it due south,
> the noise comes back about S4-5. So it looks like power lines. Ok, now I
> know what it is, what can I do about it? Even with the noise, this thing
> rocks.
>
> 73,
> Jason
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>
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>

1233. Re: Golf Flag poles

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-28 16:38:12 UTC
From: Garry <gschumac1@yahoo.com>
Topic: 1230 Message: 1233

Sure thing David. You only have to play 6 holes. Ummm Early morning game perhaps? LOL

Garry ve7ajj

--- In hex-beam@yahoogroups.com, "David Douglass" <david.douglass@o...> wrote:
> Good idea!!
>
> Next time I play a round I'll pop a few in my bag and give them a try.
> having them sitting in the hole doesn't improve my aim anyway!!
>
> Regards
>
> David, vk2dpd
> vk2dpd@q...

1234. Re: Source of Noise

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-28 16:56:05 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1231 Message: 1234

Very well-stated and explained Ren. If you have a noise blanker on your radio, give that a try. It may or may not help. The FT-817 NB is iffy as designed (mod works better). My FT-1000MP NB works much better while the FT-100D NB is the best I have seen.

I should note that the NB could potentially reduce the symptoms, but is far from a cure. One thing that is happening is that the front end is getting loaded and that can hurt your overall performance!

Let me suggest that you get a copy of the January 2003 issue of CQ Magazine and read the article on page 80 by my friend Dave Ingram K4TWJ. The title is timely --- "Power-Line Noise - Its Causes and Cures." As Ren pointed out quite correctly, you can become an RFI hunter by having the right tool. 135 MHz AM receiver (repeat -- AM) is the tool of choice. Ren has an AOR while I have a Yupiteru MVT-9000. MFJ also offers one called the Line-Noise Meter, MFJ-852 for $100 (list -- WB0W Enterprises offers MFJ stuff for a nice discount).

The ARRL also has a book called "Interference" that I recommend for reading.

Happily, my local power company is very customer friendly and the RFI guy also works closely with the repair guys. In our case, he orders up a crew and they "work for him" during that task assignment. This is much different than Ren's PC behaves (and is perhaps more typical). Our RFI guy has some fairly good equipment and understands how to use it. Also, I know that the line crews seem to understand things that cause noise sources. They keep "recent samples" of problem devices they found to show to others.

My primary station (meaning where the Hex-Beam is located) is at my office, which is located in a light industrial area with above-ground utilities. This is a much worse environment than most residential areas. However, over the past year, we have reduced the noise from as much as S-9 (measured on a calibrated FT-1000MP) to generally S-0 (or just atmospheric noise mostly now which can be several S-units or more). We located sources at first over two miles away that were radiating over the lines. As one set of sources were eliminated, others appeared. It was like peeling an onion, layer by layer. I should again point out that my PC RFI guy just hung in there to solve the problem. Also, I note that RFI problem solving isn't Job 1 for him, but he gets it done anyway because, as he says, "It's the right thing to do." Once we got the Power Company's noise source solved, the noise was still at S-5. We located (using the Hex-Beam and the handheld units) the source as a telephone company in-line boot. Some of the connection has become "noisy." Working with the telephone

company is pure magic. PC guy makes a request to some 800 number, you wait, no feedback, and then the problem is solved, and no feedback as to why. Who cares? It was fixed! That got the noise down to S-1 to S-2 (when atmospheric noise was quiet). We found a few more problems with machines in buildings nearby (like compressors). The RFI guy went to them, told them of the problems, and the folks got it fixed. Noise went to S-0. Woooohooooo!

Recently the noise jumped to S-9 again. The RFI guy located the problem (using a ZAP Checker for real close in hunting) at a number of buildings. Turned out that it was the some of the power cubes for Knology Internet interfaces and some of the interface units themselves. When he talked to Knology, they started replacing the faulty units (a lot of them too) without complaint, but actually with a thanks for identifying this problem! Folks, I really have some fine neighbors here that believe that it is their responsibility NOT to interfere with others. I could cite a number of other problems identified including a switcher at a major company that was replaced due to RFI. Notice that our PC RFI guy goes well beyond the "Power Company's Responsibility" and deals with the total problem. Does he do this just for me? Nope! I know many, many hams he has helped. Solving these types of problems can take significant time, but understanding and patience can yield great results.

As Ren mentioned, the ARRL and the FCC are also tools. The FCC has never contacted our PC. Most likely because they already have that "Can Do" attitude and realize they need to provide good customer service. FWIW, Huntsville Utilities is owned by the City of Huntsville, which means the elected officials get blamed if we voters get upset at the PC. ;-)

My only other advise is to get to know your local RFI guy and help him to learn more about identifying noise sources. He can also teach you a few things too I bet. My RFI guy certainly did teach me some!

73,
Barry - W4WB

1235. Re: [hex-beam] Relay Boxes

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-28 23:13:00 UTC
From: Paulo Marcondes
Topic: 1225 Message: 1235

David Douglass wrote:
>
> Paulo,
>
> Relay boxes work fine as long as you can get relays with a good enough
> rating to do the job. However, if you are thinking about using one to feed
> the elements individually on a 5 band Hex-Beam I would recommend against it,
> as I don't think there is any advantage in feeding the elements seperatly.

Hi David,

Thanks for answering. No, I don?t mean to feed the hex elements
separately... For me (BTW, I am no antenna expert) it seems clear that,
no matter what feed system one chooses to use on his multi-band hex,
there always will be some mutual coupling between the elements.

73s

1236. Re: [hex-beam] Source of Noise

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-29 14:20:10 UTC
From: IslPilot@aol.com
Topic: 1231 Message: 1236

Jason,

I have had powerline noise problems and the utility company eventually repaired the bad components. In my case once it was a bad insulator and another time a bad transformer. I thought I was going to have a real fight, but they responded quickly.

Paul
KB8VWV
Charlevoix, MI

[Non-text portions of this message have been removed]

1237. Review of 6-m Hex-Beam in CQ Mag.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-31 13:41:18 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1237 Message: 1237

N6CL published a mini-review of the 6-meter Hex-Beam in the January issue of CQ. Pages 85-88. Article reminded me to pull my 6-m HB out of the box and get it up in the air. Of course, my 5-band Hex-Beam stayed in its box for about 15 months before being installed. ;-)

73,
Barry - W4WB

1238. Re: [hex-beam] Review of 6-m Hex-Beam in CQ Mag.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-31 17:00:15 UTC
From: Jason Hissong
Topic: 1237 Message: 1238

Barry,

I am thinking of building my own 6M beam (although, the commercial version will probably be bought). This question is for the group as well...

I notice that all of the Hexbeams use the flexible supports that point up to hold the wire. I can understand that for multiband antennas this is a must. However, what about for single bands using pvc pipe? Kinda like spokes in a wheel? Will the pipe affect the performance that much? I guess another reason to use flexible piping is for the flexibility in spacing and adjustments...

Jason
N8XE
----- Original Message -----
From: w4wb <w4wb@...>
To: hex-beam@yahoogroups.com
Sent: Tuesday, December 31, 2002 8:41 AM
Subject: [hex-beam] Review of 6-m Hex-Beam in CQ Mag.

N6CL published a mini-review of the 6-meter Hex-Beam in the January issue of CQ. Pages 85-88. Article reminded me to pull my 6-m HB out of the box and get it up in the air. Of course, my 5-band Hex-Beam stayed in its box for about 15 months before being installed. ;-)

73,
Barry - W4WB

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[Non-text portions of this message have been removed]

1239. Re: Review of 6-m Hex-Beam in CQ Mag.

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-31 17:57:10 UTC
From: Garry <gschumac1@yahoo.com>
Topic: 1237 Message: 1239

Jason.

I think it is desireable to create tension on the wire, thereby holding it taut, by bowing the spreaders. The effect might be compared to that of a "bowstring" on a longbow. (though that degree of "taut") is not required just to keep the wire aligned. If you use a nonconductive material for the spreaders there is little likelyhood that there will be any interaction between the spreader and the element. I expect that the antenna would work just fine if a rigid spreader was used with some type of bungee cord to create tension on the element for the purpose of keeping it well aligned.

Garry ve7ajj

--- In hex-beam@yahoogroups.com, "Jason Hissong" <jhisson1@c...> wrote:
> Barry,
>
> I am thinking of building my own 6M beam (although, the commercial version will probably be bought). This question is for the group as well...
>
> I notice that all of the Hexbeams use the flexible supports that point up to hold the wire. I can understand that for multiband antennas this is a must. However, what about for single bands using pvc pipe? Kinda like spokes in a wheel? Will the pipe affect the performance that much? I guess another reason to use flexible piping is for the flexibility in spacing and adjustments...
>
> Jason
> N8XE
> ----- Original Message -----
> From: w4wb <w4wb@a...>
> To: hex-beam@yahoogroups.com
> Sent: Tuesday, December 31, 2002 8:41 AM
> Subject: [hex-beam] Review of 6-m Hex-Beam in CQ Mag.
>
>
> N6CL published a mini-review of the 6-meter Hex-Beam in the January
> issue of CQ. Pages 85-88. Article reminded me to pull my 6-m HB out
> of the box and get it up in the air. Of course, my 5-band Hex-Beam
> stayed in its box for about 15 months before being installed. ;-)
>
> 73,
> Barry - W4WB
>
>

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>
>
> [Non-text portions of this message have been removed]

1240. Hexbeam lite

Yahoo group: hex-beam (2001 — 2006)
Date: 2002-12-31 23:33:39 UTC
From: w5ddc <dallas@aol.com>
Topic: 1240 Message: 1240

All,

I will attempt to post a couple of pics of my Hex beam experiment. I am using 3/8 inch heavy wall tubing and 1/4 inch solid aluminun for 4 of the 6 spreaders. These will be driven directly in lew of the wire element. The remaining 2 spreaders I have obtained from the local Walmart 2 six foot fishing rods for 6.94 each. The center insulator is a 4 inch PVC pipe cap which I have mounted on a 3/4 inch floor flange. I used 1/4 inch stainless steel bolts spaced about 2 5/8 inches on the cap as mounting studs for the spreaders. Its not all together in the pics, I just picked up the fishing poles.

I'm going to try this all out as a single band first then experiment with the element as if it were a parrallel dipole. I used number 9 cord (telecom guys know this stuff) to tie it all to the kingpost at the moment.

So far I have 30 bucks in aluminum from Texas Towers. 14 bucks at Walmart for the fishing poles and another 15 bucks for the hardware. I will take more pics as the project goes together. My only concern at this point is how survivable it will be with these element sizes.

1241. Re: Review of 6-m Hex-Beam in CQ Mag.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-01 03:30:26 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1237 Message: 1241

Jason,

Search the archive for K0TRL (Brad). He built a 6-m HB last January. There is a photo in the Photo section that shows it coated in ice.

I measured mine for the "bow" today. The distance from the center of the arms to where the elements connect to the mast is 5 inches. The arms are different than the 5-band HB and are rahter stiff. Brad had much more bow, but his arms were more flexible as I recall. Do look up his posts.

As usual, all that is important is to get the element lenghts and spacings correct.

GL!
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Jason Hissong" <jhisson1@c...> wrote:
> Barry,
>
> I am thinking of building my own 6M beam (although, the commercial version will probably be bought). This question is for the group as well...
>
> I notice that all of the Hexbeams use the flexible supports that point up to hold the wire. I can understand that for multiband antennas this is a must. However, what about for single bands using pvc pipe? Kinda like spokes in a wheel? Will the pipe affect the performance that much? I guess another reason to use flexible piping is for the flexibility in spacing and adjustments...
>
> Jason
> N8XE

1242. Re: Hexbeam lite

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-01 20:58:12 UTC
From: w6hb <w6hb@arrl.net>
Topic: 1240 Message: 1242

I am confused. Looking at the pictures you uploaded, I see only 4 spokes/spreaders. Is this a Hex or an X? 73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "w5ddc <dallas@a...>" <dallas@a...> wrote:
> All,
>
> I will attempt to post a couple of pics of my Hex beam experiment.
> I am using 3/8 inch heavy wall tubing and 1/4 inch solid aluminun
> for 4 of the 6 spreaders. These will be driven directly in lew of
> the wire element. The remaining 2 spreaders I have obtained from
> the local Walmart 2 six foot fishing rods for 6.94 each. The center
> insulator is a 4 inch PVC pipe cap which I have mounted on a 3/4
inch
> floor flange. I used 1/4 inch stainless steel bolts spaced about
2
> 5/8 inches on the cap as mounting studs for the spreaders. Its not
> all together in the pics, I just picked up the fishing poles.
>
>
> I'm going to try this all out as a single band first then
> experiment with the element as if it were a parrallel dipole.
> I used number 9 cord (telecom guys know this stuff) to tie it
> all to the kingpost at the moment.
>
> So far I have 30 bucks in aluminum from Texas Towers.
> 14 bucks at Walmart for the fishing poles and another
> 15 bucks for the hardware. I will take more pics as the
> project goes together. My only concern at this point is
> how survivable it will be with these element sizes.

1243. Re: [hex-beam] Re: Hexbeam lite

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-01 21:02:48 UTC
From: dallas@aol.com
Topic: 1240 Message: 1243

I left a message post, I havent mounted the remaining two legs. I am using aluminum for 4 spreaders and fiberglass for the remaining two. I will be directly
driving the aluminum. Hope this clears it up some... Trying to see how it works out
in this configuration.

Donlin
W5DDC

1244. Re: Hexbeam lite

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-01 21:16:38 UTC
From: w6hb <w6hb@arrl.net>
Topic: 1240 Message: 1244

Thanks, Donlin - Still not real sure of the feed method. What are you going to use for the element ends? I look forward to seeing the finished product and your results. HNY! 73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, dallas@a... wrote:
> I left a message post, I havent mounted the remaining two legs. I am using
> aluminum for 4 spreaders and fiberglass for the remaining two. I will be
> directly
> driving the aluminum. Hope this clears it up some... Trying to see how it
> works out
> in this configuration.
>
> Donlin
> W5DDC

1245. Re: [hex-beam] Re: Hexbeam lite

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-01 21:25:08 UTC
From: dallas@aol.com
Topic: 1240 Message: 1245

Im planning on using aluminum wire for the element ends to avoid
electrolysis from the junctions. I plan on feeding the elements at the base
of the
PVC cap. I have the fishing poles cut down and need to extend them about 3
feet
on each side to get me to 9 feet or so. Im hoping to try this on 20 meters
and above. I will try it as a single band first, Im guessing that multi
banding in this
feed configuration will cause a great deal of interaction between elements.

1246. More Construction progress and photos.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-02 01:47:57 UTC
From: w5ddc <dallas@aol.com>
Topic: 1246 Message: 1246

Hello everyone,

Ive posted some more pictures of my experimental hexbeam.
You will see better pics of my hub configuration and some pics of the
compression slip joint I have devised for the aluminum elements.
I am using 3/16 inch compression union nuts that I have drilled
the center to allow them to slide on the 1/4 inch rod. I tapped
the 3/8" tubing with a 3/8-24 die then slotted the end with a
dremel tool to allow compression of the fitting when the nut
is snugged up. This allows me to adjust the length of the spreader.

I have the fishing poles cut down and fitted to 3 foot lengths of
3/8" tubing which then terminates to the hub. I ran out of daylight
before I could get them assembled. Again my intent is to configure
this as a single band antenna for the initial trials.

Donlin

1247. More Construction progress

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-02 15:50:22 UTC
From: Garry <gschumac1@yahoo.com>
Topic: 1247 Message: 1247

Donlin.

You are taking a very innovative approach. I certainly will follow your trials with a great deal of interest. Certainly the single band version will work but it is the multiband one that attracts my interest the most. I also considered the same method you have elected to use however I opted for the more standard construction method.

I rather like the idea you came up with for the hub. I only hope that the hub won't deform over time in the hot sun when you have applied tension to the spreaders, that is if you apply tension to the spreaders, such as is typically done with the multiband versions. It may not be necessary to do so with the method you have elected to try.

It occurs to me that a short length of pipe glued into the cap could aid in reducing the amount of distortion that might occur over time. I am only speculating about the distortion however it has been my experience that warming plastic pipe while it is under tension causes it to take a set coresponding to the tension.

Keep up the work, it looks good to me. Ten meters seems to be dieing so I will soon have to get after a multiband or at least a 20 m version HI.

Garry ve7ajj

1248. More photos W5DDC file

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-03 02:01:53 UTC
From: w5ddc <dallas@aol.com>
Topic: 1248 Message: 1248

Had a little time to work on my Hexbeam and have proceded with configuring the antenna for 15 meters as a trial. I have to decide on a method of attaching the wire portion of the elements to the 1/4 inch rods. I epoxied in the kingpost since I had to rough out a hole in the top of the PVC cap for the fitting. I found that the 6061 aluminum is soft enough to deform under the bow tension. I have added hose clamps at the hub end. I may change this later. As noted by Garry, the longevity and durability of the PVC cap is a question, my biggest concern is ultraviolet deterioration from sun exposure. As Garry suggested, it would be possible to glue in a short section of pipe or I have found a 4 inch to 2 inch adapter that would add substantial mass to the hub.

Donlin

1249. Re: Spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-04 13:51:24 UTC
From: dallas@aol.com
Topic: 1249 Message: 1249

MAX-GAIN SYSTEMS, INC. - President's Page - Vacuum relays and other RF relays (http://www.mgs4u.com/RF-relay.htm) http://www.mgs4u.com/RF-relay.htm Hello Everyone, I was digging on the web for some vaccum relays for an antenna tuner project and ran across a site that sells fiberglass spreaders. They indicate that they carry telescoping material up to 26 feet! Dont anyone fall off a tower trying to drag a 40 meter hexbeam up in the air! Donlin

1250. Re: Spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-05 16:57:55 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1249 Message: 1250

Tnx Donlin. Nice source for spreaders and is now in my "source book." Not inexpensive however, but they must be of high quality given that many OEM use them. GL on your project! 73, Barry - W4WB --- In hex-beam@yahoogroups.com, dallas@a... wrote: > MAX-GAIN SYSTEMS, INC. - > President's Page - Vacuum relays and other RF relays (http://www.mgs4u.com/RF-relay.htm) > > http://www.mgs4u.com/RF-relay.htm > > Hello Everyone, > > I was digging on the web for some vaccum relays for an antenna tuner project > and ran across a site that sells fiberglass spreaders. They indicate that > they carry > telescoping material up to 26 feet! Dont anyone fall off a tower trying > to drag > a 40 meter hexbeam up in the air! > > Donlin

1251. New use for 5 band Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-06 18:06:22 UTC
From: tomac14 <tomac14@yahoo.com>
Topic: 1251 Message: 1251

Hi Hexbeamers:

A friend of mine has become very interested in 160 meters and has built a 160 meter dipole, two (notice, two) Beverage antennas of 580 feet each and a magnet loop listening antenna.

So I thought I wonder how the 5 band hexbeam "hears" on 160 meter. I was surprised to find that with my 756PRO auto antenna tuner it "hears" quite well on 160 meters. I have no plans to try to transmit with it on 160 meters.

Just thought you might like to know about another interesting use of the Hexbeam.

Tom, N0YD "Yankee Doodle"

1252. Re: New use for 5 band Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-06 19:37:41 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1251 Message: 1252

Hey Tom,

Please give it a try and get a comparison with the big-boy
antennas. ;-)

CUL,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "tomac14 <tomac14@y...>"
<tomac14@y...> wrote:
> Hi Hexbeamers:
>
> A friend of mine has become very interested in 160 meters and has
> built a 160 meter dipole, two (notice, two) Beverage antennas of
580
> feet each and a magnet loop listening antenna.
>
> So I thought I wonder how the 5 band hexbeam "hears" on 160 meter.
I
> was surprised to find that with my 756PRO auto antenna tuner it
> "hears" quite well on 160 meters. I have no plans to try to
transmit
> with it on 160 meters.
>
> Just thought you might like to know about another interesting use
of
> the Hexbeam.
>
> Tom, N0YD "Yankee Doodle"

1253. Just another compromised dipole report.....

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-06 22:31:00 UTC
From: w6hb <w6hb@arrl.net>
Topic: 1253 Message: 1253

Dear Abbey,

Last night this station and another near LAX were in QSO with a W7 in Oregon. This station runs a 100 watts into a lowly Hexbeam (challenged, compromised set of dipoles) at 30.' The station at LAX was running a TA-33 at 33' and 100 watts. The path was comparable and the frequency was 14225. This station's report was a solid "S" unit higher that the other LA station throughout the 45 minute contact. My signal was reported as having minimal QSB while the other's was extensive. My audio was more reported as more "solid." The W7 was a male in his 70's who has been licensed for around 50 years, has two QTHs with multiple antenna and was running only a G5RV during this exchange. I can no longer tolerate the stresses caused by circumstances such as this. What should I do?

Distressed with Dipoles

Yes, guys this is a true story but posted for comic relief only! No flaming required, thank you - Doug - W6HB

1254. Re: More Construction progress and photos.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-10 20:26:55 UTC
From: Garry <gschumac1@yahoo.com>
Topic: 1246 Message: 1254

---Donlin.. How's the antenna coming along? I havn't seen any up to date report, unless you just posted and I missed it. I'm curious as to what you may have learned in your approach to the hexbeam. I hope you aren't letting work get in your way (or something like that.)

Garry ve7ajj --- Following along with interest. 8>)

1255. Re: [hex-beam] Re: More Construction progress and photos.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-11 02:06:13 UTC
From: dallas@aol.com
Topic: 1246 Message: 1255

Hi Garry,

I had to pause after getting the last pics uploaded and fix my TS-940S.
I had a connector on the voltage regulator board smoke and take out a
transistor driver. Got it working this week. Now I just need to hike the
antenna up the roof and give it a try. If you look at the pic files I had some
more recent pics of the hex with all 6 spokes arranged. Its survived the gusty
winds here in Texas this week so thats a good sign so far.

Donlin

1256. High Pressure Sodium Light source of noise, I think

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-14 13:13:54 UTC
From: Jason Hissong
Topic: 1256 Message: 1256

Hi guys,

This is somewhat off topic.... except I did use the Hexbeam to find the problem and I mentioned this earlier! Anyways, the story is at my webpage of how I found the source of the line noise. I think it is a high pressure sodium light directly north of me about 500 feet. Details and samples of the sounds at

http://www.qsl.net/n8xe/radio/rfi.html

Thanks guys!.... if you have any pointers, let me know...

Jason
N8XE

1257. Re: [hex-beam] Digest Number 269

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-14 17:32:03 UTC
From: Chuck Bridges
Topic: 1257 Message: 1257

Thanks for recording the sounds. The NB does seem to take care of the noise, but I am sure it also attenuates the wanted signals a bit, too. I think the lesson for me is that RFI is really everywhere.

I live in a rural setting, but have high-power lines (the ones with the massive steel towers) crossing the corner of my two acre lot. I get some noise from the lines -- it seems to be humidity dependent.

Thanks again, Jason.

Chuck, AK6DV

----- Original Message -----
From: <hex-beam@yahoogroups.com>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, January 14, 2003 08:37
Subject: [hex-beam] Digest Number 269

> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
> ---
>
> There is 1 message in this issue.
>
> Topics in this digest:
>
> 1. High Pressure Sodium Light source of noise, I think
> From: "Jason Hissong" <jhisson1@...>
>
>
> _____
> _____
>
> Message: 1
> Date: Tue, 14 Jan 2003 08:13:54 -0500
> From: "Jason Hissong" <jhisson1@...>
> Subject: High Pressure Sodium Light source of noise, I think
>
> Hi guys,
>
> This is somewhat off topic.... except I did use the Hexbeam to find the
> problem and I mentioned this earlier! Anyways, the story is at my webpage
of
> how I found the source of the line noise. I think it is a high pressure

> sodium light directly north of me about 500 feet. Details and samples of
> the sounds at
>
> http://www.qsl.net/n8xe/radio/rfi.html
>
> Thanks guys!.... if you have any pointers, let me know...
>
> Jason
> N8XE
>
>
>
> ---
> ---
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

1258. New Light-Weight Hex-Beam for 15 & 20 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-14 20:10:51 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1258 Message: 1258

Traffie mentioned to me today that he is planning to offer a HXL-1520 (I think this would be the number) Hex-Beam. It will be the light-weight version for 15 and 20 m. The price will be $399. By comparision, the heavy-weight version of the 15 & 20 m HB has a price of $599. $200 less looks like a good deal if you don't have to put up with lots of ice.

Also, he told me that he and Kathy will be showing at the Orlando Hamfest. This was a last minute decision. Drop by and say hi if you attend that hamfest.

73,
Barry - W4WB

1259. Additional band coverage?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-14 17:06:46 UTC
From: wa2ntk <wa2ntk@earthlink.net>
Topic: 1259 Message: 1259

Hi to all group members.Name is Ralph, call is wa2ntk. Live up state NY in the Finger Lake region of the state. I'm new to the group and have a 5 band Hex beam at 37ft. Been using it now for about 18 months. The antenna is located on the floor of the valley 932ft above sea level. The surrounding hills are 1,000 ft (2,900ft)above the antenna. The antenna has withstood the wind, and ice storms of this region without any damage or loss of performance.
As an airline pilot I have a very bust life style that does not afford me a lot of "radio time". Most of the time I have to devote to Ham radio is spent just "tuning around" the bands. Since I have the beam up I have worked 64 additional entities (for a total of 205).
My base rig is a Kenwood TS930S-AT with a maximum output of 140 watts. I do not own a linear amp and therefore always
run "barefoot". .
Last weekend I stumbled upon the following. The Kenwood TS930SAT will tune the beam on both 75 and 40M providing a very low SWR and full output. Also at these frequencies the antenna becomes omni-directional??. I had a 2 contacts on 40 and 6 on 75M and the signal reports I am getting are the same as I'm seeing on the TS930. On receive the performance is at least equal to or most times better than my Zepp antenna. Has anyone else experienced this? I tried using my Icom 706 MKIIG and it will not tune the beam on these frequencies. I was both surprised and pleased to discover I could do this with the 930.
I'm curious and would like to know if anyone else using this antenna is capable of tuning these bands and if so what radio are you using?
Thanks for your input.

Ralph WA2NTK 73
www.qsl.net/wa2ntk
www.home.earthlink.net/~rmko218

1260. Re: Additional band coverage?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-14 20:16:02 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1259 Message: 1260

Hi Ralph and welcome to the group. Yes, a number of us have used the 5-band Hex-Beam on 6, 30, 40, and 75 m using an antenna tuner. Unlike what I gather you observed, most of us have seen some directivity and have made contacts. Beats nothing if you don't have antennas for these bands already. :-)

You night go back and look for the old posts in the archives.

73,
Barry - W4WB

p.s. I know the area. Went to the U of R for grad school.

1261. Re: [hex-beam] New Light-Weight Hex-Beam for 15 & 20 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-15 01:28:45 UTC
From: Jason Hissong
Topic: 1258 Message: 1261

I hope they are at Dayton this year. I would love to meet them and thank them for such a great product. I live about an hour away from Dayton which makes it nice :)

I love my Hexbeam

Jason
N8XE
----- Original Message -----
From: w4wb <w4wb@...>
To: hex-beam@yahoogroups.com
Sent: Tuesday, January 14, 2003 3:10 PM
Subject: [hex-beam] New Light-Weight Hex-Beam for 15 & 20 m

Traffie mentioned to me today that he is planning to offer a HXL-1520 (I think this would be the number) Hex-Beam. It will be the light-weight version for 15 and 20 m. The price will be $399. By comparision, the heavy-weight version of the 15 & 20 m HB has a price of $599. $200 less looks like a good deal if you don't have to put up with lots of ice.

Also, he told me that he and Kathy will be showing at the Orlando Hamfest. This was a last minute decision. Drop by and say hi if you attend that hamfest.

73,
Barry - W4WB

To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

1262. calculations - feet, inch , meters...

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-14 23:26:16 UTC
From: ddelft2004 <ddelft@zeelandnet.nl>
Topic: 1262 Message: 1262

Hi There,

I would like to ask if someone can point me in the right direction for calculations on the Hex Beam.

I've seen a lot of different formulas with results in inches, feets and meters, but all have very different results. Especially the formulas for the Tip-space of the driver and reflector differ a lot.

For example: A complete calculation of a Hex-beam can be found at EI7BA's website: http://www.qsl.net/ei7ba/ahexbeam.htm

a lot of people mention that the reflector should be 4-5% larger than the driver. OK.... calculating the above examples shows that the reflector is only 1.4 % larger than the driver, which i think is incorrect.

Can someone tell me what there experience with these calculations are ?

Thanks in advance....

D.v.Delft

1263. Re: New Light-Weight Hex-Beam for 15 & 20 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-15 05:33:06 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1258 Message: 1263

--- In hex-beam@yahoogroups.com, "Jason Hissong" <jhisson1@c...>
wrote:
> I hope they are at Dayton this year. I would love to meet them and
thank them for such a great product. I live about an hour away from
Dayton which makes it nice :)
>
> I love my Hexbeam
>
> Jason
> N8XE

HI Jason,

I think it is likely Mike will be there. Not definite yet, but
likely. BTW, got your QSL and mine is on the way back tomorrow. Not
a bad Hex-Beam drawing you did. ;-)

I will be at Dayton and can be found at the W4RT Electronics booth
(113 & 114) selling lots of goodies for the FT-817, 847, and 897 plus
LDG tuners of all types (some new models too). Drop by and have an
eyeball QSO.

73,
Barry - W4WB

1264. Re: calculations - feet, inch , meters...

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-15 16:43:08 UTC
From: Garry <gschumac1@yahoo.com>
Topic: 1262 Message: 1264

D.v.Delft

I think those figures are pretty close.

Since you are here, look to the left of screen and click on files then check out DL7IO and I think you can get the info you want from there. If I recall correctly, I used his formula to calculate the dimensions and MY hexbeam (single band - at the moment) was bang on. I did no trimming whatsoever (as far as swr was concerned).

And does it work? Yep I worked a ZL2 and a VK3 just yesterday morning using 10 watts (mode - psk) and neither of them was moving my s meter period.... Mind you there were no other signals on the band at the time so no competition.

Garry ve7ajj

1265. 6M HB

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-15 17:08:24 UTC
From: wa2ntk <wa2ntk@earthlink.net>
Topic: 1265 Message: 1265

Can anyone provide information on home brewing a 6M Hex Beam?.
Perhaps a web site or tried and proven mesurements? Thanks Ralph
WA2NTK

1266. Hex beam base dimensions etc

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-15 09:26:58 UTC
From: Tony Magon
Topic: 1266 Message: 1266

Can anyone advise me of the dimensions of the the hexbeam base ie - what is the length of each side of the hexagon base. Also has anyone tried using spreaders made of 20mm PVC, grey electrical conduit. Also has anyone considered using linear loading for operation on 40 and 80 meters and maybe even 160.

73

Tony Magon
VK2IC Carlingford Sydney

[Non-text portions of this message have been removed]

1267. Hex Beam Base dimensions etc

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-15 11:25:29 UTC
From: tonymagon <tmagon@optusnet.com.au>
Topic: 1267 Message: 1267

Can anyone advise me of the dimensions of the the hexbeam base ie -
what is the length of each side of the hexagon base. Also has anyone
tried using spreaders made of 20mm PVC, grey electrical conduit.
Also has anyone considered using linear loading for
operation on 40 and 80 meters and maybe even 160.

73

Tony Magon
VK2IC Carlingford Sydney

1268. Re: 6M HB

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-15 19:21:08 UTC
From: Garry <gschumac1@yahoo.com>
Topic: 1265 Message: 1268

Your at the right place Ralph. Check out the photos section and the files section of this reflector.

Garry

> Can anyone provide information on home brewing a 6M Hex Beam?.
> Perhaps a web site or tried and proven mesurements? Thanks Ralph
> WA2NTK

1269. Re: Hex Beam Base dimensions etc

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-15 19:25:26 UTC
From: Garry <gschumac1@yahoo.com>
Topic: 1267 Message: 1269

Tony I think the base dimensions are arbitrary, depending on what you want to build. All the information that you want can be found right here but it does take quite a bit of reading HI.. I suggest you try the files and photos section of the reflector. I think you have to be registered to access them but I'm not certain of that.

Good luck.. Happy reading (I read them all ---- well most of them anyway. You soon learn which are of interest for your application)

Garry ve7ajj

> Can anyone advise me of the dimensions of the the hexbeam base ie -
> what is the length of each side of the hexagon base. Also has anyone
> tried using spreaders made of 20mm PVC, grey electrical conduit.
> Also has anyone considered using linear loading for
> operation on 40 and 80 meters and maybe even 160.
>
> 73
>
> Tony Magon
> VK2IC Carlingford Sydney

1270. Re: [hex-beam] Re: calculations - feet, inch , meters...

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-15 22:16:11 UTC
From: dallas@aol.com
Topic: 1262 Message: 1270

I stuck an excel spreadsheet file with the formulas for element lengths on the group files page.
The formulas were derived from the EI7BA web page. If anyone can comment as to the accuracy of these formulas it would be appreciated.

You just enter the frequency you want to see and it auto calculates the elements and spacings.

Donlin

1271. Hex Home Frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-15 23:29:49 UTC
From: gdguy21 <gdguy21@yahoo.com>
Topic: 1271 Message: 1271

I am able to operate from the west coast weekdays.

Anyone interested in a sked?

HOward

KO6WL

1272. Using just one band on multi-ban Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-15 18:21:11 UTC
From: Ed Gray W0SD
Topic: 1272 Message: 1272

I have owned a 5 band Hex beam for awhile and have used it in our retirement travels including Mexico, St. Paul Island, Labrador, St. Pierre and Miquelon. I am thinking of giving it to my son and buying another one. Given that the sunspot cycle is headed down I am thinking of getting the 20 - 15 meter model rather than the 5 band model. The main reason for that is discussed below.

Having put the 5 bander together and tearing it apart many times the xyl and I have it down to about as much of a science as possible. One thing I may do is put sleeves where the fiberglass poles mount and have the sleeves so I can slide the fiberglass poles into the sleeve. I would have the end of the sleeve slip and use a hose clamp to hold them. Those locking nuts and angle pieces are the biggest hassle to a quick portable install. The biggest secret we have learned for a quick portable install is don't take it apart. By this I mean leave the director wires mounted and just take the pole apart at the slip joint, fold it one over so they are side by side and fold the the wires with it, DON'T WRAP, and use tape to hold the wires along the poles. Do the same with the reflector and the other poles just slip apart and tape together. BTW for the joint we just use black tape and works great for a couple weeks install and have been through a major storm on St. Paul Is. I also have a quick attachment to the mast which takes 5 seconds. My mast is a 20 or 25 foot push up flag pole. I also have designed a base mount for hand rotation and locking in a certain direction. It put it all in a nylon bag other than the hub. If there is interest I can go into all this and post some digital pictures on the web..

Obviously one could put it up faster with 3 bands rather than 5 bands as that is what takes the most time, hooking up the wires. I don't know how the matching is done in the "TUBE" but has anyone TRIED JUST PUTTING ONE BAND WIRE ON or does the SWR go up? That would really speed it up. A lot of times I just want it on 20 meters to get my e-mail and keep some schedules. I don't want to buy just a mono-bander as I might go on another DX-pediton and at least want 20 - 15 meters and some times we stay a few weeks in one place and then it is worth the effort to put the other band wires on. If the matching is critical in what is done in the tube(I suspect it is) does anyone know what it would cost to buy a 20 meter center piece or build one myself so when I was putting it up for just 20 meters I could use it instead of the multi-band tube. I like this idea as then I could buy another 5 band HEX BEAM but a lot of the time just put it up with the 20 meter wire on it and the 20 meter center post..

Summary:

Has anyone tried leaving band wires off and what is the SWR?
Has anyone built or know if I could get just a "20 meter tube" for the center section?
I would be interested in information on how to build a "20 meter tube"?

73, Ed W0SD

--
Ed Gray
43804 257 St
Salem, SD 57058-5907
605 425 2354

www.triotel.net/~w0sd

1273. Re: Hex beam base dimensions etc

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-15 18:46:53 UTC
From: w0sd <w0sd@triotel.net>
Topic: 1266 Message: 1273

It is 9.5" across the plate and each side of the Hexagon is 5.5" of my 5 band Hex Beam base.

I have not used the 20 mm PVC but I just don't see that working. There is A LOT of force when you put the band wires on. One can do a lot of things to home brew one but not using fiber glass poles in my opinion would not be one of them.

Ed Gray W0SD

--- In hex-beam@yahoogroups.com, "Tony Magon" <tmagon@o...> wrote:
> Can anyone advise me of the dimensions of the the hexbeam base ie - what is the length of each side of the hexagon base. Also has anyone tried using spreaders made of 20mm PVC, grey electrical conduit.

1274. PLEASE READ --- Moderator Message

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-16 02:17:38 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1274 Message: 1274

Folks,

Many of you have joined this Group and have never posted. When you do, you may be surprised that your post often takes a while before it shows up. Some even repost it thinking Yahoo! put it into the black hole.

The problem is that you are in a moderated status. I do this in order to allow anyone to join, but not to have the priviledge to freely posting. Why? Simple reason is to be sure you are not a spammer. Yes, I catch one or two a day trying to break through so that you never see them.

So how do you obtain unmoderated status? Simple again. Just post a message that clearly lets me know that you are a ham and are interested in this antenna technology. I encourage you to sign the post with your name and call sign. Once I see you are not a spammer, I then change your status to unmoderated. From then on, your posts will appear as fast as the Yahoo! system moves them along.

This list has NOT had "bad behavior" yet unlike two other lists I manage (having a total of over 5000 members). In some cases, people are placed on moderated status, and if they don't "get it," they are banned and/or removed. This is an excellent group and your interest in helping each other is nice to see.

So be tolerate of me if your first post takes a while to show up. I have a busy life and many other duties. In general, I try to check the pending message box each day.

Thanks es 73,
Barry - W4WB
Moderator

1275. Re: Using just one band on multi-ban Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-16 02:23:41 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1272 Message: 1275

Hi Ed,

Great information. For fun, I tried the 5-bander mounted maybe 6' off the ground with all bands connected and then took off the 12 and 17 m wires. Why? Beats me, just seemed interesting to do at the tiem. Anyway, the 259B scans showed that it wasn't such a good idea. Lots of interaction going on and you have to remember that all of anntenas are feed at the same time.

For your travels, it sounds like Mike's planned HXL 15 and 20 m would be just the ticket.

73,
Barry - W4WB

1276. Re: [hex-beam] PLEASE READ --- Moderator Message

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-16 02:59:44 UTC
From: Ed Gray W0SD
Topic: 1274 Message: 1276

Hi Barry,

OK that explains why my posts were not going through today! I am farmiliar with moderated and unmoderated and after the postings did not show up I checked the information on the Yahoo page and it said unmoderated so I decided that was not what was holding it up. I guess more accuratedly stated not moderated after the first time if you meet the criteria. No problem, sounds like a good way of doing it and I appreciate your efforts. Boy I have been around a few that I sure wish were modereated.

Thanks for the explaination, now it all makes sense and I am all for it. AGAIN THANKS! I assume I am now on unmoderated status.

73, Ed Gray W0SD

--
Ed Gray
43804 257 St
Salem, SD 57058-5907
605 425 2354

www.triotel.net/~w0sd

w4wb wrote:

> Folks,
>
> Many of you have joined this Group and have never posted. When you
> do, you may be surprised that your post often takes a while before it
> shows up. Some even repost it thinking Yahoo! put it into the black
> hole.
>

[Non-text portions of this message have been removed]

1277. Re: [hex-beam] PLEASE READ --- Moderator Message

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-16 04:21:08 UTC
From: Tony Magon
Topic: 1274 Message: 1277

Thanks very much for the explanation Barry

73

Tony VK2IC
----- Original Message -----
From: w4wb <w4wb@...>
To: hex-beam@yahoogroups.com
Sent: Thursday, January 16, 2003 1:17 PM
Subject: [hex-beam] PLEASE READ --- Moderator Message

Folks,

Many of you have joined this Group and have never posted. When you do, you may be surprised that your post often takes a while before it shows up. Some even repost it thinking Yahoo! put it into the black hole.

The problem is that you are in a moderated status. I do this in order to allow anyone to join, but not to have the priviledge to freely posting. Why? Simple reason is to be sure you are not a spammer. Yes, I catch one or two a day trying to break through so that you never see them.

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So be tolerate of me if your first post takes a while to show up. I have a busy life and many other duties. In general, I try to check the pending message box each day.

Thanks es 73,
Barry - W4WB
Moderator

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[Non-text portions of this message have been removed]

1278. Re: [hex-beam] Re: New Light-Weight Hex-Beam for 15 & 20 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-16 04:41:12 UTC
From: Jason Hissong
Topic: 1258 Message: 1278

Barry,

Great! I may have to pick up an LDG tuner or something :) I will definately stop by your booth and Mike's. Looking forward to it. Check out my new QSLs coming:

http://www.qsl.ru/portfolio/n8xe.htm

Picture of the Hexbeam on back!

Looking forward to getting your QSL..

73
Jason
N8XE
----- Original Message -----
From: w4wb <w4wb@...>
To: hex-beam@yahoogroups.com
Sent: Wednesday, January 15, 2003 12:33 AM
Subject: [hex-beam] Re: New Light-Weight Hex-Beam for 15 & 20 m

--- In hex-beam@yahoogroups.com, "Jason Hissong" <jhisson1@c...>
wrote:
> I hope they are at Dayton this year. I would love to meet them and
thank them for such a great product. I live about an hour away from
Dayton which makes it nice :)
>
> I love my Hexbeam
>
> Jason
> N8XE

HI Jason,

I think it is likely Mike will be there. Not definite yet, but
likely. BTW, got your QSL and mine is on the way back tomorrow. Not
a bad Hex-Beam drawing you did. ;-)

I will be at Dayton and can be found at the W4RT Electronics booth
(113 & 114) selling lots of goodies for the FT-817, 847, and 897 plus
LDG tuners of all types (some new models too). Drop by and have an
eyeball QSO.

73,
Barry - W4WB

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[Non-text portions of this message have been removed]

1279. Re: Hex beam base dimensions etc

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-16 09:05:36 UTC
From: David Douglass
Topic: 1266 Message: 1279

Hi Tony and All,

Regarding PVC pipe, I would tend to agree that 1 length of 20mm PVC pipe would not have the required rigidity. I would suggest looking at telescoping some shorter lengths together and think this would give you the required strength and flexibility.

I'm looking at this for my MarkIII version!! I've been thinking about hose clamping the lengths together, so they can be telescoped down for transportation, and instead of using 2 U-bolts to fix the spreader to the base, using a U-Bolt on the outer part and a hinge on the inner part to allow the spreaders to 'fold up'. This would allow you to easily transport the antenna for portable work, and have it set up in minutes at the other end.

Sounds good in theory anyway.

Good Luck

David, VK2DPD

vk2dpd@...

1280. Re: [hex-beam] PLEASE READ --- Moderator Message

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-16 03:10:45 UTC
From: Bill Tarkington
Topic: 1274 Message: 1280

Pursuant to your received request, I make this posting to substantiate that I am not a spammer. I joined this group because I have an interest in this particular antenna and was hoping to learn more about it, and possibly how to home brew one. Have not had the pleasure of actually seeing one of these first hand. Am sure its components are of highest quality. But for the life of me, I still wonder what it is that makes it cost so much. I have been just reading all the posts, absorbing as much as I can. I considered buying a hex beam, but it was so new at that time, I could find no one who knew anything about it, much less actually possessing one. I bought the Cushcraft X-7 instead. My take is that the X-7 is superior in that it is extremely heavy duty in construction and probably exhibits more gain pjrovided one can get it tuned just right. Believe me Cushcraft does not cooperate in this endeavour. Nonetheless, the hexbeam still fascinates me. I am even more fascinated by the newer small beams being offered that use eletric motors to adjust the element specs instantly so one is virtually always using a reasonant antenna. I forget the name of these just now, but they too, are quite expensive. Were they to make one with at least one more element, I would indeed consider investing in one to try it, provided that investment is one I can actually make! Bill Tarkington/k3yc.
----- Original Message -----
From: w4wb <w4wb@...>
To: hex-beam@yahoogroups.com
Sent: Wednesday, January 15, 2003 8:17 PM
Subject: [hex-beam] PLEASE READ --- Moderator Message

Folks,

Many of you have joined this Group and have never posted. When you do, you may be surprised that your post often takes a while before it shows up. Some even repost it thinking Yahoo! put it into the black hole.

The problem is that you are in a moderated status. I do this in order to allow anyone to join, but not to have the priviledge to freely posting. Why? Simple reason is to be sure you are not a spammer. Yes, I catch one or two a day trying to break through so that you never see them.

So how do you obtain unmoderated status? Simple again. Just post a message that clearly lets me know that you are a ham and are interested in this antenna technology. I encourage you to sign the post with your name and call sign. Once I see you are not a spammer, I then change your status to unmoderated. From then on, your posts will appear as fast as the Yahoo! system moves them along.

This list has NOT had "bad behavior" yet unlike two other lists I manage (having a total of over 5000 members). In some cases, people are placed on moderated status, and if they don't "get it," they are banned and/or removed. This is an excellent group and your interest

in helping each other is nice to see.

So be tolerate of me if your first post takes a while to show up. I have a busy life and many other duties. In general, I try to check the pending message box each day.

Thanks es 73,
Barry - W4WB
Moderator

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1281. RE: [hex-beam] PLEASE READ --- Moderator Message

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-16 23:03:29 UTC
From: John Herzog
Topic: 1274 Message: 1281

Bill, I didn't know why they cost so much either until I tried to put together all the bits and pieces needed to make a quality copy. Then I found out; the ingredients for this stew ain't cheap.

John VE3DOP

-----Original Message-----
From: Bill Tarkington [mailto:K3YC@...]
Sent: Wednesday, January 15, 2003 10:11 PM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] PLEASE READ --- Moderator Message

Pursuant to your received request, I make this posting to substantiate that I am not a spammer. I joined this group because I have an interest in this particular antenna and was hoping to learn more about it, and possibly how to home brew one. Have not had the pleasure of actually seeing one of these first hand. Am sure its components are of highest quality. But for the life of me, I still wonder what it is that makes it cost so much. I have been just reading all the posts, absorbing as much as I can. I considered buying a hex beam, but it was so new at that time, I could find no one who knew anything about it, much less actually possessing one. I bought the Cushcraft X-7 instead. My take is that the X-7 is superior in that it is extremely heavy duty in construction and probably exhibits more gain pjrovided one can get it tuned just right. Believe me Cushcraft does not cooperate in this endeavour. Nonetheless, the hexbeam still fascinates me. I am even more fascinated by the newer small beams being offered that use eletric motors to adjust the element specs instantly so one is virtually always using a reasonant antenna. I forget the name of these just now, but they too, are quite expensive. Were they to make one with at least one more element, I would indeed consider investing in one to try it, provided that investment is one I can actually make! Bill Tarkington/k3yc.
----- Original Message -----
From: w4wb <w4wb@...>
To: hex-beam@yahoogroups.com
Sent: Wednesday, January 15, 2003 8:17 PM
Subject: [hex-beam] PLEASE READ --- Moderator Message

Folks,

Many of you have joined this Group and have never posted. When you do, you may be surprised that your post often takes a while before it shows up. Some even repost it thinking Yahoo! put it into the black hole.

The problem is that you are in a moderated status. I do this in order to allow anyone to join, but not to have the priviledge to freely posting. Why? Simple reason is to be sure you are not a spammer. Yes, I catch one or two a day trying to break through so that you never see them.

So how do you obtain unmoderated status? Simple again. Just post a message that clearly lets me know that you are a ham and are interested in this antenna technology. I encourage you to sign the post with your name and call sign. Once I see you are not a spammer, I then change your status to unmoderated. From then on, your posts will appear as fast as the Yahoo! system moves them along.

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So be tolerate of me if your first post takes a while to show up. I have a busy life and many other duties. In general, I try to check the pending message box each day.

Thanks es 73,
Barry - W4WB
Moderator

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Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.441 / Virus Database: 247 - Release Date: 1/9/2003

1282. Antenna notes, was Re: PLEASE READ --- Moderator Message

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-17 17:45:35 UTC
From: Brian Badger <bbadger@yahoo.com>
Topic: 1274 Message: 1282

--- In hex-beam@yahoogroups.com, "Bill Tarkington" <K3YC@a...> wrote:
> Am sure its components are of highest quality. But for the life of me, I still wonder what it is that makes it cost so much.

From what I've heard, it is primarily the cost of labor. Other antenna designs are mass produced, at lower cost. I'm sure the Hex could be made at lower cost -- but probably not by Traffie.

> My take is that the X-7 is superior in that it is extremely heavy duty in construction

Note that the X-7 is heavy duty because it has to support it's own weight. I selected the hexbeam because it is very strong for it's weight. In winds that bent my VHF vertical, the hexbeam didn't even flex. YMMV, but my hex scoffs at ice-storms and 70 mph winds.

> I am even more fascinated by the newer small beams being offered that use eletric motors to adjust the element specs instantly so one is virtually always using a reasonant antenna.

The SteppIR antenna suffers from the same weakness as conventional trapped tribanders -- the element spacing isn't optimized. As a result it does not exhibit great F/B on the higher bands. Same as it ever was -- same problem, new product. Still, it is a step in the right direction. A motorized telescoping mast that changes the element spacing would be trick.
--
Brian N0KZ

1283. More kudos

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-18 03:44:49 UTC
From: Jason Hissong
Topic: 1283 Message: 1283

Hi guys,

Just got to brag... I finally worked Nepal. I have never been able to work that country... UNTIL NOW! My Hexbeam is fabulous. For those that are riding the fence... get one of these! BTW... beat out my neighbor down the street in a pile up to Dominica. He is using a C3SS at 40' and I am using the Hex at 36'.

Anyways... I will be creating a special page just for the Hexbeam on my site. It will include many soundbites I have collected.

73,

Jason N8XE

Also, been using MixW which is a great program. Just talked to a guy in Argentina and we were sending Pictures over MFSK16. Solid copy both ways....

1284. Re: [hex-beam] Antenna notes, was Re: PLEASE READ --- Moderator Message

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-18 04:01:29 UTC
From: Bill Tarkington
Topic: 1274 Message: 1284

Hi Brian: Interesting stuff! Learned some things I did not know, and confirmed others I already knew. Thanks, Bill/k3yc
----- Original Message -----
From: Brian Badger <bbadger@...>
To: hex-beam@yahoogroups.com
Sent: Friday, January 17, 2003 11:45 AM
Subject: [hex-beam] Antenna notes, was Re: PLEASE READ --- Moderator Message

--- In hex-beam@yahoogroups.com, "Bill Tarkington" <K3YC@a...> wrote:
> Am sure its components are of highest quality. But for the life of me, I still wonder what it is that makes it cost so much.

From what I've heard, it is primarily the cost of labor. Other antenna designs are mass produced, at lower cost. I'm sure the Hex could be made at lower cost -- but probably not by Traffie.

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Note that the X-7 is heavy duty because it has to support it's own weight. I selected the hexbeam because it is very strong for it's weight. In winds that bent my VHF vertical, the hexbeam didn't even flex. YMMV, but my hex scoffs at ice-storms and 70 mph winds.

> I am even more fascinated by the newer small beams being offered that use eletric motors to adjust the element specs instantly so one is virtually always using a reasonant antenna.

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--
Brian N0KZ

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1285. Re: obtain unmoderated status

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-17 17:53:00 UTC
From: John Burton
Topic: 1285 Message: 1285

Greetings all, I thought I would post a message to obtain unmoderated status. I have been following the group for a few weeks now, trying to learn more about hexbeams. My QTH is in a moblie home park and the hexbeam may be another solution for an antenna.

KG9DK
John B.

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1286. Sound files of 5 Band Hexbeam in Action

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-18 05:15:31 UTC
From: Jason Hissong
Topic: 1286 Message: 1286

Hi guys,

Wanted to post a link to my site where I have sound files of the difference between my dipole and my Hexbeam.

http://www.qsl.net/n8xe/radio/hexbeam.html

Thanks!

Jason N8XE

1287. element tip insulators

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-18 22:59:36 UTC
From: zl1gdh <zl1gdh@yahoo.com>
Topic: 1287 Message: 1287

Hi Guys....I am thinking of using a heavy nylon monofilament as the insulator between the ends of the driven and reflector elements. Anyone had any success with this? or any pitfalls already encountered?

XYL is starting to make static about having to mow around my project construction site on the back lawn, so must get it all up in the air soon.

Cheers de Graham ZL1GDH

1288. Re: [hex-beam] element tip insulators

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-19 00:30:20 UTC
From: Ed Fox
Topic: 1287 Message: 1288

It might be okay for a temporary installation but the UV rays from the sun and other weather elements (wind or ice) would get to it sooner or later...Ed, N0OQ

>From: "zl1gdh <zl1gdh@...>" <zl1gdh@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] element tip insulators
>Date: Sat, 18 Jan 2003 22:59:36 -0000
>
>Hi Guys....I am thinking of using a heavy nylon monofilament as the
>insulator between the ends of the driven and reflector elements.
>Anyone had any success with this? or any pitfalls already
>encountered?
>
>XYL is starting to make static about having to mow around my project
>construction site on the back lawn, so must get it all up in the air
>soon.
>
>Cheers de Graham ZL1GDH
>
>

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1289. Re: element tip insulators

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-19 00:49:49 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1287 Message: 1289

Hey Graham,

Forget discussing your Hex-Beam project and just tell us how you get your XYL to mow the yard! Please don't say you have to wash the dishes or something in return. ;-)

Regarding the line, I think you will do better using UV resistant plastic.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "zl1gdh <zl1gdh@y...>" <zl1gdh@y...> wrote:
><snip> XYL is starting to make static about having to mow around my project construction site on the back lawn, so must get it all up in the air soon.
>
> Cheers de Graham ZL1GDH

1290. dimensions, use of 1 element only, spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-19 20:06:48 UTC
From: dl7io <dl7io@qsl.net>
Topic: 1290 Message: 1290

Hello everybody. I found some questions where I may give a comment on and will answer them in one posting.

Hello D.v.Delft,
you will get the antenna working while using EI7BA's formulas.
To your information a few words to the problem of simple formulas to the hand
For monoband designs the reflector is mostly 3-4% longer than the radiator. In multiband designs the reflector is only about 2 % longer. For the SWR the radiator length is most important. For the gain the reflector length has the most impact. The insulator space is also important for the SWR. The difference between reflector and radiator length influences the bandwith (SWR) of the resonance. But if you change one component it has influence on all other values. And also the wire diameter and/or material influences everything again.
So it is not easy to find the optimum. But an indication may be that an ideal SWR means not the best gain. The gain drops down about 2 db over an normal band like e.g. 20m which is more than a usual 2 element has. It is best on the beginning (CW edge) and has 2 db less on the other end. Traffie offers other wire lengths for SSB-only operators.
In the file section (file/dl7io/) you will find a zip-file with a
summary of eznec files for monoband versions from 10-80m and a excel-file with the calculations for XYZ-coordinates. Here you can change all relevant parameters like lengths for elements or insulators.
There is also a table with recommended data. While playing around with it you will find out that the relations between the lengths are different for the bands and not easy to bring on a simple formula. I have not build monoband beams for 30-80 yet but the values are plausible.

Hello Ed,W0SD,
Monoband wire use with multiband hardware:
It is possible and not to difficult with a single band. The easiest band should be 20 m. Remove all other wires and use only the original 20m wires. Measure the frequency with the best SWR with a MFJ259 or something familiar (pay Attention that the coax line is not resonant!). Now calculate the new length for the radiator and make the reflector about 3,5-4 % longer. There may be a final adjustment necessary. Changing of the insulators is not needed. You can do so for every single band if you like. But I cannot understand why to do so. If you have done the mechanical preparations of the antenna, than it takes you 10-15 more minutes to install all the wires. The time you need to determine & build the new wires for 20 m only will be

minimum 2-3 hours.

Hello Tony, VK2IC,
PVC pipes for spreaders:
I don't exactly know what kind of pipes you mean. But I would like to
let you know that it is important that the spreaders are not to soft.
The spreaders must give the pressure on the wire to hold the wire in position. This is especially important for multiband versions because the wires for the higher bands are very close together and if the wires have to much room to move you will be not satisfied with the performance. In the extreme case 10 & 12 m wires can get together
Check out if the pipes are strong enough. And if they are strong enough they should not be to heavy!
If you will build it for fixed installation and not for travelling around you can do it with fiberglas fishing pipes (with no rings, the cheapest kind of 8-9 US$ each) of about 4m length. Remove the smallest element and you have a spreader up to 20m versions. But you must support the bottom side where the spreader is fixed to the mounting plate. I used wooden sticks of 1 feet or 30 cm length inside the fiberglas pipe. Be careful while attaching the clamps. But for portable use I cannot recommend it because the clamps are damaging the surface and the thin fiberglas will break. To pack the antenna you have to remove the clamps totally and that is the problem. But I had 2 x 5 band beams made of fishing pipes down in Malta (9H3O 2001 & 9H3M 2002) and they withstand force 12 winds without any problems.
Today I use custom made fiberglas spreaders and this is the most expensive part of the antenna.

Regards Holger, DL7IO

1291. SSB verses CW

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-19 22:36:43 UTC
From: w5kde <w5kde@arrl.net>
Topic: 1290 Message: 1291

Holger,

Ist das Design, das Sie NACH RECHTS optimiert für SSB oder
bekanntgegeben haben?

Holger,

Is the design that you have posted optimized for SSB or CW?

73s

Ken (W5KDE)

1292. Optimized for CW or SSB?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-20 01:32:22 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1290 Message: 1292

Holger,

It is my understanding that Mike only builds them (production) optimized for CW. However, this is not a big promblem IMO since hardly any DXing going on much above 14.260, 21.350, and 28.550. The performance loss is not significant I suggest and from my exoerience.

If the antenna is optimized for SSB, the PSK and CW portions of the band, on say 20 m, will suffer noticable increase in SWR, and decrease in gain and F/B. If the owner never plans to use those portions of the bands, well okay; however, if the CW or PSK bug bites, then doom on the selection of SSB optimization. :-)

Therefore, I think Mike's decision was a reasonable one.

73,
Barry - W4WB

1293. new to group

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-19 23:54:16 UTC
From: k5psb <maclark@flash.net>
Topic: 1293 Message: 1293

Hi HexBeam afficianados:

I read the review of the 6 meter hexbeam in CQ and immediately became hot to build one for 20 meters! I did a web search and found the Hexbeam company site and also the EI7BA site, which led me here. I've been hamming for 20 years and homebrewing unusual antennas is the thing I enjoy most about amateur radio. Several years ago I built a 20 meter discone in the backyard, which stayed up for about 3 years, till the wind got it one spring. :)

I'll try to look at the files so I don't ask too many newby questions, but I wanted to let everyone know I was here.

73!

mark-
K5PSB

1294. Re: element tip insulators

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-20 07:04:51 UTC
From: Graham Henley <zl1gdh@yahoo.com>
Topic: 1287 Message: 1294

Hi Barry.....Never thought about UV resistance! Might get this thing up in the air for this season and use the winter to sort out tip insulators...Idealy would like to machine them out of the same fiberglass rod I have used for my spreaders.

I thought all XYL's mowed lawns..

Cheers de Graham ZL1GDH

1295. Re: element tip insulators

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-20 07:08:00 UTC
From: Graham Henley <zl1gdh@yahoo.com>
Topic: 1287 Message: 1295

Thanks Ed.....I have taken your observations on board, many thanks
and best 7s de Graham ZL1GDH

1296. Re: Optimized for CW or SSB?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-20 09:54:29 UTC
From: dl7io <dl7io@qsl.net>
Topic: 1290 Message: 1296

--- In hex-beam@yahoogroups.com, "w4wb <w4wb@a...>" <w4wb@a...> wrote:
> Holger,
>
> It is my understanding that Mike only builds them (production)
> optimized for CW. However, this is not a big promblem IMO since
> hardly any DXing going on much above 14.260, 21.350, and 28.550.
The
> performance loss is not significant I suggest and from my
> exoerience.

> If the antenna is optimized for SSB, the PSK and CW portions of the
> band, on say 20 m, will suffer noticable increase in SWR, and
> decrease in gain and F/B. If the owner never plans to use those
> portions of the bands, well okay; however, if the CW or PSK bug
> bites, then doom on the selection of SSB optimization. :-)
>
> Therefore, I think Mike's decision was a reasonable one.
>
> 73,
> Barry - W4WB

Barry,
I think somebody wrote about a discussion with Mike and he offered
him wires optimized for SSB. It was the wish of the customer (not
Mike's) and if this is a good decision I don't like to comment (PSK,
RTTY etc.). I'm sure Mike showed him the consequences.

But what happens? For the first 100 kHz down the gain will increase
up to 6.5 dBi max. (free space, no losses). The SWR will also
increase to values around 1:10 very fast. The F/B is decreasing and
than the direction switches and the former reflector works as a
director.
73, Holger

1297. Re: SSB verses CW

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-20 09:58:06 UTC
From: dl7io <dl7io@qsl.net>
Topic: 1290 Message: 1297

--- In hex-beam@yahoogroups.com, "w5kde <w5kde@a...>" <w5kde@a...>
wrote:
> Holger,
> Is the design that you have posted optimized for SSB or CW?
> 73s
> Ken (W5KDE)
Ken,
it is optimized for use in the whole band, what means the CW-portion
has the best gain.
Holger, DL7IO

1298. Re: Optimized for CW or SSB?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-20 13:01:43 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1290 Message: 1298

Holger,

Yes, Mike will custom tune the antenna, but otherwise it covers the band okay. I frankly am clueless what you are talking about when you state the reflector switches roles and becoming a director. This simply doesn't happen in the Hex-Beam built by Traffie in any of the five intended bands. In addition, too much concern is made over SWR. Concern over having the SWR be 1.1:1 vs. 1.5:1 simply is wasted effort. The loss is just a few percent. If you are conjugate matching, it is even less. It is interesting to observe the various SWR plots people have shown and compare then to "theory." The influence of the surroundings and installtion (such as RF choke or not) is evident in most.

I do note that on 20 m, for example, my HB SWR is about 1.6:1 at 14.0 and climbs rapidly as you mention as the frequency is lowered. From memory, I believe it was about 6:1 at 13.9. As the frequency increased, the SWR radidly dropped and then began to increase about 14.2+ and then rose rapidly again above 14.4+.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "dl7io <dl7io@q...>" <dl7io@q...>
wrote:
> --- In hex-beam@yahoogroups.com, "w4wb <w4wb@a...>" <w4wb@a...>
wrote:
> > Holger,
> >
> > It is my understanding that Mike only builds them (production)
> > optimized for CW. However, this is not a big promblem IMO since
> > hardly any DXing going on much above 14.260, 21.350, and 28.550.
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the
> > band, on say 20 m, will suffer noticable increase in SWR, and
> > decrease in gain and F/B. If the owner never plans to use those
> > portions of the bands, well okay; however, if the CW or PSK bug
> > bites, then doom on the selection of SSB optimization. :-)
> >
> > Therefore, I think Mike's decision was a reasonable one.
> >
> > 73,

> > Barry - W4WB
>
> Barry,
> I think somebody wrote about a discussion with Mike and he offered
> him wires optimized for SSB. It was the wish of the customer (not
> Mike's) and if this is a good decision I don't like to comment
(PSK,
> RTTY etc.). I'm sure Mike showed him the consequences.
>
> But what happens? For the first 100 kHz down the gain will increase
> up to 6.5 dBi max. (free space, no losses). The SWR will also
> increase to values around 1:10 very fast. The F/B is decreasing and
> than the direction switches and the former reflector works as a
> director.
> 73, Holger

1299. 2M Hex?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-20 13:49:16 UTC
From: Jason Hissong
Topic: 1299 Message: 1299

Hi guys,

I wonder if Mike does 2M Hexbeams on a case by case basis? Or a great one would be a 2M/6M beam for all of us with VHF on our HF rigs... I think that may be a nice new addition to the product line..

Jason
N8XE

1300. Re: [hex-beam] Re: Optimized for CW or SSB?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-20 15:46:13 UTC
From: Eric Carling
Topic: 1290 Message: 1300

This is absolutely not what happens (with my hexbeam)

For 20m as an example: SWR @ 14.300 = 1.6:1 > 14.200 = 1.4:1 > 14.100 = 1
1:1 >14.000 = 1.2:1 > 13.900 = 4:1

Nowhere in this curve, or even well above or below where SWR is 10:1 or
worse, does the beam lose its directivity. I just tested it on some BC
stations. F/B was still quite noticeable.

In writing this it did occur to me that I was only considering receive and
had not proved that its the same on transmit. So I did a test on transmit
with a station on 40m. SWR is about 7:1 and with or without tuner (I can
output abt 25 watts at 7:1 SWR from the FT1000MP) my test partner reported
some directivity in the normal direction.

Super High Incidence of Twaddle could be an explanation for your findings.

Eric G0CGL.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: Monday, January 20, 2003 10:04:47
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Optimized for CW or SSB?

--- In hex-beam@yahoogroups.com, "w4wb <w4wb@a...>" <w4wb@a...> wrote:
> Holger,
>
> It is my understanding that Mike only builds them (production)
> optimized for CW. However, this is not a big promblem IMO since
> hardly any DXing going on much above 14.260, 21.350, and 28.550.
The
> performance loss is not significant I suggest and from my
> exoerience.

> If the antenna is optimized for SSB, the PSK and CW portions of the
> band, on say 20 m, will suffer noticable increase in SWR, and
> decrease in gain and F/B. If the owner never plans to use those
> portions of the bands, well okay; however, if the CW or PSK bug
> bites, then doom on the selection of SSB optimization. :-)
>
> Therefore, I think Mike's decision was a reasonable one.
>
> 73,
> Barry - W4WB

Barry,
I think somebody wrote about a discussion with Mike and he offered him wires optimized for SSB. It was the wish of the customer (not Mike's) and if this is a good decision I don't like to comment (PSK, RTTY etc.). I'm sure Mike showed him the consequences.

But what happens? For the first 100 kHz down the gain will increase up to 6.5 dBi max. (free space, no losses). The SWR will also increase to values around 1:10 very fast. The F/B is decreasing and than the direction switches and the former reflector works as a director.
73, Holger

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.

[Non-text portions of this message have been removed]

1301. Re: [hex-beam] 2M Hex?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-20 16:40:36 UTC
From: Nigel Gunn
Topic: 1299 Message: 1301

Good as it may be, I think a conventional 2 element yagi is ewasier to build for VHF/UHF bands and the Hex is probably out performed by a ZL special or HB9CV.

de Nigel G8IFF

----- Original Message -----
From: "Jason Hissong" <jhisson1@...>
To: "Hex-Beam Yahoo Group" <hex-beam@yahoogroups.com>
Sent: Monday, January 20, 2003 1:49 PM
Subject: [hex-beam] 2M Hex?

> Hi guys,
>
> I wonder if Mike does 2M Hexbeams on a case by case basis? Or a great one
> would be a 2M/6M beam for all of us with VHF on our HF rigs... I think
that
> may be a nice new addition to the product line..
>
> Jason
> N8XE
>
>
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>
>

1302. Re: [hex-beam] 2M Hex?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-20 16:48:53 UTC
From: Jason Hissong
Topic: 1299 Message: 1302

Right,

I would agree. However, we all know how the Hex really hates that kind of antenna close to it. Hexbeams seem to behave better around each other. So I can see an advantage there..

Thanks!

Jason

It is almost like you either go all hex or not :)
----- Original Message -----
From: Nigel Gunn
To: hex-beam@yahoogroups.com
Sent: Monday, January 20, 2003 11:40 AM
Subject: Re: [hex-beam] 2M Hex?

Good as it may be, I think a conventional 2 element yagi is ewasier to build
for VHF/UHF bands and the Hex is probably out performed by a ZL special or
HB9CV.

de Nigel G8IFF

----- Original Message -----
From: "Jason Hissong" <jhisson1@...>
To: "Hex-Beam Yahoo Group" <hex-beam@yahoogroups.com>
Sent: Monday, January 20, 2003 1:49 PM
Subject: [hex-beam] 2M Hex?

> Hi guys,
>
> I wonder if Mike does 2M Hexbeams on a case by case basis? Or a great one
> would be a 2M/6M beam for all of us with VHF on our HF rigs... I think
that
> may be a nice new addition to the product line..
>
> Jason
> N8XE
>
>
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[Non-text portions of this message have been removed]

1303. Re: 2M Hex?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-20 17:07:08 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1299 Message: 1303

Jason,

I suggest a little Yagi is far better for 2 m. However, see the 2m Hex-Beam made and operated by SP3FHI. Hope he runs low power. ;-)
http://www.axeprim.poznan.pl/sp3fhi/hex2me.html
and message #72 in the archive.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Jason Hissong" <jhisson1@c...> wrote:
> Hi guys,
>
> I wonder if Mike does 2M Hexbeams on a case by case basis? Or a great one
> would be a 2M/6M beam for all of us with VHF on our HF rigs... I think that
> may be a nice new addition to the product line..
>
> Jason
> N8XE

1304. Re: Optimized for CW or SSB?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-20 19:36:13 UTC
From: dl7io <dl7io@qsl.net>
Topic: 1290 Message: 1304

Hello,
I guess we come to the right kind of discussion.
I cannot insert pics here so I have downloaded a file called gain-directivity-swr.zip into the file section (file/dl7io). It has 2 files inside. A word file with some slices from eznec3.0 and the data file for eznec to reproduce the results. Here you can see what I have mentioned before. While measuring SWR please don't forget the influence of coax cable ;-)
regards Holger
PS. If It takes a while with my answer my work should be the reason. I'm a service engineer and it is possible that I'm out for a couple of days.

1305. Re: Optimized for CW or SSB?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-23 17:19:05 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1290 Message: 1305

Holger,

You might rerun the analysis at a useful elevation angle (not 0 degs) and other than free space. I have not observed in practice any flipping of the role of the passive element from reflector to director (even out of the band using SW stations as "beacons").

This is true for the "extra bands" of 6, 30, 40 , and 75 m as well.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "dl7io <dl7io@q...>" <dl7io@q...> wrote:
> Hello,
> I guess we come to the right kind of discussion.
> I cannot insert pics here so I have downloaded a file called gain-
> directivity-swr.zip into the file section (file/dl7io). It has 2
> files inside. A word file with some slices from eznec3.0 and the data
> file for eznec to reproduce the results. Here you can see what I have
> mentioned before. While measuring SWR please don't forget the
> influence of coax cable ;-)
> regards Holger
> PS. If It takes a while with my answer my work should be the reason.
> I'm a service engineer and it is possible that I'm out for a couple
> of days.

1306. Re: Optimized for CW or SSB?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-23 20:37:38 UTC
From: dl7io <dl7io@qsl.net>
Topic: 1290 Message: 1306

Barry,
there is another file gain-direction-swr.zip in the file section.
Same reaction in real space. And I don't know why the modeling
software which is working for all other kinds of antennas should be
wrong here. The F/B is very small, less than 2 dB and I think this is
nearly impossible to measure under band conditions. Nevertheless to
me it sounds very logical that the reflector is more working like a
director for lower frequencies and for a 2 element it means the beam
direction is changing.
Holger

> Holger,
>
> You might rerun the analysis at a useful elevation angle (not 0
degs)
> and other than free space. I have not observed in practice any
> flipping of the role of the passive element from reflector to
> director (even out of the band using SW stations as "beacons").
>
> This is true for the "extra bands" of 6, 30, 40 , and 75 m as well.
>
> 73,
> Barry - W4WB

1307. Re: Optimized for CW or SSB?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-23 23:25:58 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1290 Message: 1307

Holger,

I have measured typically 1.5 to 2 S-units F/B on 30 m for example. Even SW stations below 14 MHz don't flip F to B when I have listened, and the F/B was certainly more than 2 dB. This is all fun to chat about, but I think I'm missing your point. What does this have to do with the hex-beam used in it designed bands?

73,
Barry

--- In hex-beam@yahoogroups.com, "dl7io <dl7io@q...>" <dl7io@q...>
wrote:
> Barry,
> there is another file gain-direction-swr.zip in the file section.
> Same reaction in real space. And I don't know why the modeling
> software which is working for all other kinds of antennas should be
> wrong here. The F/B is very small, less than 2 dB and I think this
is
> nearly impossible to measure under band conditions. Nevertheless to
> me it sounds very logical that the reflector is more working like a
> director for lower frequencies and for a 2 element it means the
beam
> direction is changing.
> Holger

1308. Re: Optimized for CW or SSB?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-24 10:52:54 UTC
From: dl7io <dl7io@qsl.net>
Topic: 1290 Message: 1308

Barry,
of course there is no point. I only explained how the antenna is
working and found of course other opinions/impressions (that is
good!). That's why I showed the source of my knowledge and how I came
to this. For me it is important to know how something works and not
only that it works. But I will try to not disturb the real important
reports and promise to be silent.
;-)))
Holger

> Holger,
>
> I have measured typically 1.5 to 2 S-units F/B on 30 m for
example.
> Even SW stations below 14 MHz don't flip F to B when I have
listened,
> and the F/B was certainly more than 2 dB. This is all fun to chat
> about, but I think I'm missing your point. What does this have to
do
> with the hex-beam used in it designed bands?
>
> 73,
> Barry
>
>
> --- In hex-beam@yahoogroups.com, "dl7io <dl7io@q...>" <dl7io@q...>
> wrote:
> > Barry,
> > there is another file gain-direction-swr.zip in the file section.
> > Same reaction in real space. And I don't know why the modeling
> > software which is working for all other kinds of antennas should
be
> > wrong here. The F/B is very small, less than 2 dB and I think
this
> is
> > nearly impossible to measure under band conditions. Nevertheless
to
> > me it sounds very logical that the reflector is more working like
a
> > director for lower frequencies and for a 2 element it means the
> beam
> > direction is changing.
> > Holger

1309. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-25 03:40:25 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 1309

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /HexCalc/hexbeamcalc.xls
Uploaded by : w5ddc <dallas@...>
Description : updated file with input from Dl7io

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/HexCalc/hexbeamcalc.xls

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

w5ddc <dallas@...>

1310. Hexbeam to Hexbeam QSO

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-26 19:06:19 UTC
From: k1epj <n1ix@att.net>
Topic: 1310 Message: 1310

I had my first Hexbeam to Hexbeam QSO this morning with HB9ACD on 18Mhz CW. Hans was the strongest signal on the band. His HB5 was doing a great job. Signal in New Hampshire was 579 - 599 with QSB.

Dave N1IX

1311. Hexbeam to Hexbeam Qso

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-26 17:17:03 UTC
From: n1ix@att.net
Topic: 1311 Message: 1311

I had my first Hexbeam to Hexbeam QSO with HB9ACD this morning.
Hans' Hexbeam was doing a very nice job. His signal was 579 up to 599 at times in QSB on 18Mhz.

Dave N1IX

1312. antenna design

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-26 22:11:53 UTC
From: Graham Henley <zl1gdh@yahoo.com>
Topic: 1312 Message: 1312

Hi guys....

What are the design or engineering concepts behind the "upside down umbrella"?

I am considering experimenting with a conventional aligned umbrella for my spreaders. Let gravity assist in maintaining a parrabolic curve i.e. the tips will droop downwards. Other than a loss of a couple of feet in element height I can't see any problems...and an advantage I expect from this configuration is my somewhat whippy spreaders won't want to twist into S shapes etc...Anyone care to comment?

Cheers de Graham ZL1GDH

1313. Construction details

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-26 14:56:53 UTC
From: ve3cwo <ve3cwo@rac.ca>
Topic: 1313 Message: 1313

Although I note that details are available in a powerpoint file, I do not own this software.
Can someone in this group e-mail me with typical dimensions for driven elements and reflectors lengths for a five band 10 - 20 m version. I am especially interested in the tip-to-tip spacing, and whether this has been found to be critical in terms of forward gain or F-to-B ratio.
I have built a five band version, using hardwood spreaders, and used an MFJ 259 analyser for tuning. It works well, but I am planning to build another one, lighter weight if possible, and with improved performance too.
I appreciate any specifics (dimensions) that can be offered.
Doug, VE3CWO e-mail ve3cwo@...

1314. Re: antenna design

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-27 17:21:06 UTC
From: Garry <gschumac1@yahoo.com>
Topic: 1312 Message: 1314

ZL1GDH Graham

"Let gravity assist in maintaining a parrabolic
curve i.e. the tips will droop downwards"

Parabolic curve? As I understand it Graham, the bow in the spreaders simply allows the spreaders to exert a constant tension on the element wire thereby keeping them taut and properly aligned. It could not possible matter (I wouldn't think) whether they bend upwards or downwards from an antenna performance point of veiw, however if they bend upward then gravity will assist (though only slightly) in tensioning the wires.

If you are really ingenious and stealth is a concern then you could orient them downward and cover the struture with plastic, creating a large umbrella. Place a picnic table under the umbrella and you should be able to convince your neighbors that you have simply created a shelter for your personal outdoors enjoyment. You may have to devise some creative explaination as to why the umbrella is located 40 feet up in the air though. 8>)

Garry Ve7ajj

1315. Re: Construction details

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-01-29 22:01:29 UTC
From: ve3cwo <ve3cwo@rac.ca>
Topic: 1313 Message: 1315

My thanks go out to Donlin and Holger for some really helpful responses to my questions. It is really appreciated that there are amateurs out there that are so willing to be of assitance to someone they don't know.

I was pointed to some Excel (TM) files, and was directed to a new web site that Holger is setting up, and was able to confirm that I am on the right wavelength (no pun intended) with the construction of my five band hex-supported antenna system. I have a nice start on the second one already. Now that I have a digital camera, I will make an effort to post some photos, in due course, of the work that I will be doing.

If there is anyone else out there that has some emperical information relative to the tip-to-tip spacing of the elements, I would be pleased to hear from you.

Regards, Doug, VE3CWO

--- In hex-beam@yahoogroups.com, "ve3cwo <ve3cwo@r...>" <ve3cwo@r...>
wrote:
> Although I note that details are available in a powerpoint file,
> I do not own this software.
> Can someone in this group e-mail me with typical dimensions for
> driven elements and reflectors lengths for a five band 10 - 20 m
> version. I am especially interested in the tip-to-tip spacing, and
> whether this has been found to be critical in terms of forward gain
> or F-to-B ratio.

1316. Hex-Beams at the Orlando Hamfest

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-04 06:21:44 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1316 Message: 1316

Traffie will be at the Orlando Hamfest (WX in the NE permitting!).

He will have a booth and I understand that a shootout with an A3SS is planned. Not sure about the details yet, but gather that it will be handled by the club station committee there.

If you attend, drop by and see Mike. Am sure he will be happy to discuss the Hex-Beam, model airplanes, cars, woodworking, etc.

73,
Barry - W4WB

1317. [hex-beam] Hex-Beams at the Orlando Hamfest

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-04 16:41:56 UTC
From: sysop@bfdin.com
Topic: 1316 Message: 1317

Will Mike be at Rochester Hamfest or at Timonium later this year?

- Bill N3LLR

HE>Traffie will be at the Orlando Hamfest (WX in the NE permitting!).

HE>He will have a booth and I understand that a shootout with an A3SS is
HE>planned. Not sure about the details yet, but gather that it will be
HE>handled by the club station committee there.

HE>If you attend, drop by and see Mike. Am sure he will be happy to
HE>discuss the Hex-Beam, model airplanes, cars, woodworking, etc.

HE>73,
HE>Barry - W4WB

HE>To unsubscribe from this group, send an email to:
HE>hex-beam-unsubscribe@yahoogroups.com

HE>

HE>Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

1318. Re: Hex-Beams at the Orlando Hamfest

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-04 20:36:22 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1316 Message: 1318

```
--- In hex-beam@yahoogroups.com, sysop@b... wrote:
> Will Mike be at Rochester Hamfest or at Timonium later this year?
>
> - Bill N3LLR
>

I don't know Bill. Give him a call.
Barry - W4WB
```

1319. Newbie construction comments

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-10 16:16:35 UTC
From: ab0si <ab0si@yahoo.com>
Topic: 1319 Message: 1319

This is intended for fellow new hams who are thinking of going with a hexbeam.

Customer support:
Simply the best. If you want a negative, it is lack of email support. However, just give them a call. No matter how simple or strange the question, you will find them remarkably helpful and supportive.

Construction:
I am still in awe of how easy it is (I bought the 5-bander). It is VERY difficult to do anything wrong. The instructions are quite clear with good illustrations. For a newbie such as me who has the mechanical aptitude of an acorn squash (and experience to match), this was a nice change from other antennas I have installed (Butternut's unreadable diagrams and unlabeled components and Force 12s assumption that the builder (moi) is an experienced antenna maven.

I live in lovely warm Minnesota (wind chill today is -30 something). I was able to assemble the hexbeam in my double garage and stay out of the weather until it was time to install the beast on the tower.

It is much easier to put the thing together with two people. Much easier. Neither one is required to have much skill, but a third hand makes things go very fast.

The very nature of the design means that tuning would seldom be required. For anyone who has had the enjoyment of tuning a multi-band antenna, this is a Good Thing. (GT is a technical term: the opposite of GAG)

Performance:
It is a compromise antenna, guys. It is not a full size 9 zillion element single band yagi. It is, however, a remarkably effective small, light weight antenna. There are even an advantage in this (the silver lining): since the 1/2 power beam width is quite wide, you don't have turn it all that often or point it exactly in the correct direction. Of course this means that the highest gain is less (that's the cloud).

Paul ab0si

1320. RECENT PERFORMANCE

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-11 16:43:47 UTC
From: Andrea & Chuck Bridges
Topic: 1320 Message: 1320

I was just reading the comments from "newbie" Paul, AB0SI.

The comments match my experiences with the antenna. I even appreciate the "silver lining." I played in last weekend's CQ WPX RTTY contest. I live in California, and late in the afternoon I would point the antenna (the five-bander) at Japan. While "running" JAs (well at least in my small way) on 10 meters, I was able to work some Latin American and a lot of US stations without moving the antenna.

The antenna is clearly a compromise, but one that fits with my operating style and requirements.

Paul, thanks for your comments.

Chuck, AK6DV

1321. maintenance

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-13 06:01:21 UTC
From: ve7ckz <motorcycler@canada.com>
Topic: 1321 Message: 1321

I will be doing spring maintenance on my HX-5Bi hex beam in the near future. What are some of the goup members experiences with annual maintenace on the hex-beam? Did things hold up well?

Has anyone opted to put the extra bolt through the mounting plate to add to the sturdiness rather than using the set screw only? (I have only the set screw.)

Anyone have problems with the pins coming out of the telescoping mast? (I have the new pins, but have not installed them yet).

Overall, performance wise, I have had great results with the antenna when it comes to DX!

73

Todd

1322. Re: [hex-beam] maintenance

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-13 14:48:16 UTC
From: Ed Fox
Topic: 1321 Message: 1322

"Annual maintainance" is a good question and I'd be interested in others comments also. I used coax-seal where the pl-259 goes into the center support and also where the driven & reflector elements connect to the nuts on the center support.
One of the pins on my mast was beginning to work it's way out and I've replaced them with the new pins. It's good to put those new pins in :-)
73's from Minnesota, Ed N0OQ

>From: "ve7ckz <motorcycler@...>" <motorcycler@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] maintenance
>Date: Thu, 13 Feb 2003 06:01:21 -0000
>
>I will be doing spring maintenance on my HX-5Bi hex beam in the near
>future. What are some of the goup members experiences with annual
>maintenace on the hex-beam? Did things hold up well?
>
>Has anyone opted to put the extra bolt through the mounting plate to
>add to the sturdiness rather than using the set screw only? (I have
>only the set screw.)
>
>Anyone have problems with the pins coming out of the telescoping
>mast? (I have the new pins, but have not installed them yet).
>
>Overall, performance wise, I have had great results with the antenna
>when it comes to DX!
>
>73
>
>Todd
>
>

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http://join.msn.com/?page=features/junkmail

1323. Re: [hex-beam] maintenance

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-13 15:55:17 UTC
From: Eric Carling
Topic: 1321 Message: 1323

Good questions! Prompted to have a proper look, I have found nothing needing attention.

I did not put in the extra bolt - I didn't have the means to drill it and it was a concern at the time. However despite constant high winds this winter, including two 90mph storms, no weakness has shown up through a lack of it and neither has the assembly turned on the mast.

Like you Todd, my results have been thrilling. My ACOM 1000 amp is not too happy with me though as its suffering from neglect.

Eric.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: Thursday, February 13, 2003 14:08:54
To: hex-beam@yahoogroups.com
Subject: [hex-beam] maintenance

I will be doing spring maintenance on my HX-5Bi hex beam in the near future. What are some of the goup members experiences with annual maintenace on the hex-beam? Did things hold up well?

Has anyone opted to put the extra bolt through the mounting plate to add to the sturdiness rather than using the set screw only? (I have only the set screw.)

Anyone have problems with the pins coming out of the telescoping mast? (I have the new pins, but have not installed them yet).

Overall, performance wise, I have had great results with the antenna when it comes to DX!

73

Todd

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[Non-text portions of this message have been removed]

1324. Re: [hex-beam] maintenance

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-13 16:14:32 UTC
From: Eric Carling
Topic: 1321 Message: 1324

Good questions! Prompted to have a proper look, I have found nothing needing attention.

I did not put in the extra bolt - I didn't have the means to drill it and it was a concern at the time. However despite constant high winds this winter, including two 90mph storms, no weakness has shown up through a lack of it and neither has the assembly turned on the mast.

Like you Todd, my results have been thrilling. My ACOM 1000 amp is not too happy with me though as its suffering from neglect.

Eric.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: Thursday, February 13, 2003 14:08:54
To: hex-beam@yahoogroups.com
Subject: [hex-beam] maintenance

I will be doing spring maintenance on my HX-5Bi hex beam in the near future. What are some of the goup members experiences with annual maintenace on the hex-beam? Did things hold up well?

Has anyone opted to put the extra bolt through the mounting plate to add to the sturdiness rather than using the set screw only? (I have only the set screw.)

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73

Todd

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[Non-text portions of this message have been removed]

1325. HX-5B SWR on 12 meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-13 16:24:42 UTC
From: Floyd Sense
Topic: 1325 Message: 1325

Hi All. It's been just about 3 years now since I erected HX-5B #18 and just ran into a problem and wanted to find out what others see on their beams. Unfortunately, I can't locate the SWR plots I did on my antenna when I first put it up, so don't know what the SWR on 12 meters was at that point. Recently, I acquired a different linear amp and this one has a grid protection circuit that kicks out if the SWR is very high. The first time I tuned it up on 12M I found the grid overload protection was kicking out early and so checked out the SWR situation. I used my MFJ-259B connected to the feedline and scanned all the bands to see how the SWR varied across the bands, and also checked to see where the lowest SWR was on each band. The following is what I found. Has anyone else looked at this and if so how do your results compare? What are folks seeing for SWR on 12M?

In the following, each line represents the results for one band, and the SWR numbers shown are: low band edge, high band edge, lowest SWR in or near the band.

20 Mtrs: 1.7, 1.2, (1:1 at 14.400)
17 Mtrs: 1.2, 1.2, (1.1 at 18.106)
15 Mtrs: 1.2, 1.2, (1:1 at 21.124 and 21.220)
12 Mtrs: 2.0, 1.6, (1:1 at 25.232)
10 Mtrs: 1.4, 1.2, (1:1 at 28.314) For this band, the top edge number is for 28.650 instead of 29.7

Note the odd frequency of 25.232 for the lowest SWR in or around 12 meters. The antenna is mounted with the top element at 40', with no other wires within 40 feet. There's no variation of the 12 meter SWR when rotating the beam through 360 degrees.

K8AC
Floyd Sense in Angier, NC

1326. Re: [hex-beam] HX-5B SWR on 12 meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-13 18:26:02 UTC
From: Harry Tankin
Topic: 1325 Message: 1326

My HX5-Bi has been up for almost 2 years. I've noticed the SWR on 12m appears relatively high as compared to other bands. On 12m it's about 1.7:1 while on the others anywhere from 1:1 to 1.4:1. On several occassions the autotuners in my rigs have kicked in while on 12m. For most part, I just figured that is the way it is and wasn't terribly concerned. However, on two occassions the SWR on 17m and 12m went through the roof, but not on the other bands...hence, did not appear to be feedline or connector issue. The SWR then settled down to its "normal" readings for 17 and 12. Not sure what the issues where but all seemed to have been fine for past few weeks (knock on wood). Still a great antenna. Harry WE1X ----- Original Message ----- From: Floyd Sense Date: Thursday, February 13, 2003 11:24 am Subject: [hex-beam] HX-5B SWR on 12 meters >
> > > > Hi All. It's been just about 3 years now since I erected HX-5B > #18 and just > > ran into a problem and wanted to find out what others see on their > beams. > Unfortunately, I can't locate the SWR plots I did on my antenna > when I first > > put it up, so don't know what the SWR on 12 meters was at that point. > > Recently, I acquired a different linear amp and this one has a grid > > protection circuit that kicks out if the SWR is very high. The > first time I > > tuned it up on 12M I found the grid overload protection was > kicking out > > early and so checked out the SWR situation. I used my MFJ-259B > connected to > > the feedline and scanned all the bands to see how the SWR varied > across the > > bands, and also checked to see where the lowest SWR was on each > band. The > > following is what I found. Has anyone else looked at this and if > so how do > > your results compare? What are folks seeing for SWR on 12M? > > > > In the following, each line represents the results for one band, > and the SWR > > numbers shown are: low band edge, high band edge, lowest SWR in or > near the > > band. > > > > 20 Mtrs: 1.7, 1.2, (1:1 at 14.400) > > 17 Mtrs: 1.2, 1.2, (1.1 at 18.106) > > 15 Mtrs: 1.2, 1.2, (1:1 at 21.124 and 21.220) > > 12 Mtrs: 2.0, 1.6, (1:1 at 25.232) > > 10 Mtrs: 1.4, 1.2, (1:1 at 28.314) For this band, the top edge > number is > > for 28.650 instead of 29.7 > > > > Note the odd frequency of 25.232 for the lowest SWR in or around > 12 meters. > > The antenna is mounted with the top element at 40', with no other > wires > within 40 feet. There's no variation of the 12 meter SWR when > rotating the > > beam through 360 degrees. > > > > K8AC > > Floyd Sense in Angier, NC > > > > > > > > > > > > > > To unsubscribe from this group, send an email to: > > hex-beam-unsubscribe@yahoogroups.com > > > > > > > > > > Your use of Yahoo! Groups is subject to the Yahoo! Terms of > Service. > > > >

1327. Re: HX-5B SWR on 12 meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-14 04:10:45 UTC
From: w6hb <w6hb@arrl.net>
Topic: 1325 Message: 1327

I just spot checked my HX-5Bi, S/N 173, again on 12 and 17 meters. I do not have the 259 at this time. Using the VSWR meter internal to the FT-1000MP with no tuner, I measured the following: 24.892 1.2:1.0 24.988 1.0:1.0 18.070 1.2:1.0 18.166 1.0:1.0 This is with a full 100 watts output and no evidence of foldback. I question if the variations reported are due to condensation in the feed tube and or a plugged drain hole in the mounting plate. The older feed tubes did not have the internal feeders Teflon wrapped. I believe these were problematic on some frequencies with high power. 73 - Doug - W6HB --- In hex-beam@yahoogroups.com, Harry Tankin wrote: > My HX5-Bi has been up for almost 2 years. I've noticed the SWR on 12m > appears relatively high as compared to other bands. On 12m it's about > 1.7:1 while on the others anywhere from 1:1 to 1.4:1. On several > occassions the autotuners in my rigs have kicked in while on 12m. > > For most part, I just figured that is the way it is and wasn't > terribly concerned. However, on two occassions the SWR on 17m and 12m > went through the roof, but not on the other bands...hence, did not > appear to be feedline or connector issue. The SWR then settled down > to its "normal" readings for 17 and 12. Not sure what the issues > where but all seemed to have been fine for past few weeks (knock on > wood). > > Still a great antenna. > > Harry WE1X > > > > ----- Original Message ----- > From: Floyd Sense > Date: Thursday, February 13, 2003 11:24 am > Subject: [hex-beam] HX-5B SWR on 12 meters > > > > > > > > > > > Hi All. It's been just about 3 years now since I erected HX-5B > > #18 and just > > > > ran into a problem and wanted to find out what others see on their > > beams. > > Unfortunately, I can't locate the SWR plots I did on my antenna > > when I first > > > > put it up, so don't know what the SWR on 12 meters was at that point. > > > > Recently, I acquired a different linear amp and this one has a grid > > > > protection circuit that kicks out if the SWR is very high. The > > first time I > > > > tuned it up on 12M I found the grid overload protection was > > kicking out > > > > early and so checked out the SWR situation. I used my MFJ-259B > > connected to > > > > the feedline and scanned all the bands to see how the SWR varied > > across the > > > > bands, and also checked to see where the lowest SWR was on each > > band. The > > > > following is what I found. Has anyone else looked at this and if > > so how do > > > > your results compare? What are folks seeing for SWR on 12M? > > > > > > > > In the following, each line represents the results for one band, > > and the SWR > > > > numbers shown are: low band edge, high band edge, lowest SWR in or > > near the > > > > band. > > > > > > > > 20 Mtrs: 1.7, 1.2, (1:1 at 14.400) > > > > 17 Mtrs: 1.2, 1.2, (1.1 at 18.106) > > > > 15 Mtrs: 1.2, 1.2, (1:1 at 21.124 and 21.220) > > > > 12 Mtrs: 2.0, 1.6, (1:1 at 25.232) > > > > 10 Mtrs: 1.4, 1.2, (1:1 at 28.314) For this band, the top edge > > number is > > > > for 28.650 instead of 29.7 > > > > > > > > Note the odd frequency of 25.232 for the lowest SWR in or around > > 12 meters. > > > > The antenna is mounted with the top element at 40', with no other > > wires > > within 40 feet. There's no variation of the 12 meter SWR when > > rotating the > > > > beam through 360 degrees. > > > > > > > > K8AC > > > > Floyd Sense in Angier, NC > To unsubscribe from this group, send an email to: > > > > hex-beam-unsubscribe@yahoogroups.com > Your use of Yahoo! Groups is subject to the Yahoo! Terms of > > Service. > > > > > > > >

1328. SWR AND MAINTENANCE

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-14 16:45:25 UTC
From: Andrea & Chuck Bridges
Topic: 1328 Message: 1328

I am very curious about maintenance, so please keep the postings coming!

Here's a SWR plot for my HX-5Bi done in December. I used an Autek meter at my rig.

3500 6.60
3750 4.80
4000 6.30

7000 5.90
7150 7.40
7300 8.40

10100 5.10
10150 4.80

14000 1.58
14150 1.11
14350 1.12

18068 1.42
18110 1.21
18168 1.10

21000 1.27
21200 1.19
21450 1.08

24890 1.38
24930 1.36
24990 1.28

28000 1.16
28300 1.08
28500 NA
29700 1.47

By the way, I put in the extra bolt and the new pins and have had no problems since I put the antenna up in October.

73!

Chuck, AK6DV

1329. Care of Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-15 03:14:37 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1329 Message: 1329

I will contact Mike and see if he will give his thoughts. If so, I will post them for him (he doesn't do email).

73,
Barry - W4WB

1330. Traffie's Comments on Care of Your Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-18 16:33:10 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1330 Message: 1330

In response to the question of what annual care should be given to the Hex-Beam, Mike Traffie said basically nothing is needed.

However, there are a few points he did suggest.

1. Be sure the drain hole on the center post is clear and free to allow water to drain out.

2. If you don't have the base plate bolted to the mast, then you should do so the next time you have the antenna down.

3. Check the cap on top of the center post to be sure it is sound.

Regarding the question of 12 m SWR being too high for some folks at times, this is likely caused by mosture. The 12 m section is rather "hi-Q" and can shift due to water or ice. I have never had a problem with mine even in heavy rains FWIW.

Mike commented that they have had Hex-Beams up for years with nothing done to them and they continue to perform FB.

73,
Barry - W4WB

1331. Re: Traffie's Comments on Care of Your Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-19 16:13:31 UTC
From: Andrea & Chuck Bridges
Topic: 1330 Message: 1331

Barry:

Thanks for following up with Mike. That's great news -- good performance
and low maintenance!

73 de
Chuck, AK6DV

1332. Possible alternative to HexBeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-19 17:16:31 UTC
From: Doug Faunt N6TQS +1-510-655-8604
Topic: 1332 Message: 1332

Take a look at the antenna shown here. It's got much in common with
the Hexbeam, and might be of interest to people on this list.
Con calls it a spider beam.
http://www.qsl.net/df4sa

73, doug

1333. Hex Alternative

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-20 11:01:02 UTC
From: David Douglass
Topic: 1333 Message: 1333

Doug,

Thanks for the link and very interesting!!

G6XN covers this type of antenna in some detail in his book "HF Antennas for All Locations", and he gives them pretty favourable press.

I suppose the downside to these is the need for a 5 metre spreader (plus a little more for bowing), as opposed to not much more than 3 metres for the Hex. Still food for thought though!!

Regards

David, VK2DPD

1334. Photo Album ON4QR

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-20 12:15:01 UTC
From: philipon4qr <on4qr@pandora.be>
Topic: 1334 Message: 1334

More detailed pictures will follow about the constuction of the monoband HEX.

Thanks to the HEX-beam group I was aible to made a very nice Hex antenna.
Also thanks to Peter WB3FSR for sending some very good pictures.

73
Philip,on4qr

1335. yes

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-24 02:42:37 UTC
From: jim foley
Topic: 1335 Message: 1335

I did apply to join and want to be a mamber because I will have a hex beam up shortly.

73 de w8nsi

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[Non-text portions of this message have been removed]

1336. Hex-Beaming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-25 04:44:24 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1336 Message: 1336

Hey folks, it is rather quiet on the list. Even though the bands have not been very good lately, I have found the Hex-Beam to contiue to perform well. This afternoon, I worked a VK2 on 12 m (propagation prediction program indicated a no-way contact). He was running a 5-element Yagi and 400 W. He was about 53 and my report was 57. We had a great chat. After we signed, he was trying to copy a number of other stations calling him, but they were all in the noise. The two stations he worked before me got 53 to 52 reports as I recall. Also worked, the other day, 5X1DC and SO7V on first and 2nd calls.

We have had several strong storms recently and the HB weathered them well.

Hope your Hex-Beams are doing well for you too.

Traffie told me that he is planning to be at Dayton. I don't know if he plans to set up a demo site. As I recall, the Hamvention group has a 5-band Hex-Beam. Perhaps they will have it up and working.

73,
Barry - W4Wb

1337. Re: Hex-Beaming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-25 14:29:06 UTC
From: kg4eqd <kazeringue@aol.com>
Topic: 1336 Message: 1337

> Traffie told me that he is planning to be at Dayton. I don't know
if
> he plans to set up a demo site. As I recall, the Hamvention group
> has a 5-band Hex-Beam. Perhaps they will have it up and working.

Just FYI, I have a decent picture of the Dayton special event station
from the 2002 Hamvention, sporting their Hexbeam.

The picture is imbedded in our club neswletter, top of page 4. The
newsletter is available online to anyone interested at:

http://www.qsl.net/n4nc/Feedline/2002/2002_06_feedline.pdf

73,
W4KAZ

1338. BEEN HAVING CONTEST FUN

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-25 15:41:52 UTC
From: Andrea & Chuck Bridges
Topic: 1338 Message: 1338

Hello, All:

I haven't had much chance to operate lately, but was able to work in the CQ WPX RTTY (500 Qs) and NAQP RTTY (289 Qs) contests. All of my contacts on 10-15-20 meters were made using my Hex-Beam HX5-Bi (my 40-80 meter contacts were made using a GAP Challenger). The Hex-Beam is still working fine!

Hope everyone else is having fun operating. 73!

Chuck, AK6DV

1339. Re: 40M Hex Beam Experience??

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-25 17:16:58 UTC
From: IslPilot@aol.com
Topic: 1339 Message: 1339

Well since Barry says the List is quiet.....I am considering putting up the 40M Hex Beam. I talked to Mike about it and its sounds very interesting. For all the reasons we have been using the 5 bander the 40M offers the same physical attractions for reasonable performance on 40M where I would be unable to put up a conventional 40M Yagi or Quad. With the higher bands quieting down, sounds like spending more time on the lower bands is the future for us. Anyone out there able to give some first hand experience?

Paul Baron
KB8VWV
Charlevoix, MI

1340. The Hexbeam and ice

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-25 17:51:16 UTC
From: Floyd Sense
Topic: 1340 Message: 1340

My HX-5B hexbeam survived the ice storm of a week ago with no damage, but was unusable for a couple of days. The antenna had a 3/8" coating of ice over everything and the SWR on every band was too high for operation (20 meters was 3:1 across the band). A friend of mine with a 4 element quad experienced the same problem with his antenna, but noted no problems with yagis with a similar ice coating. A few days after the ice storm, we had sustained winds of 35 mph, with frequent gusting to 48 mph, and the hexbeam survived quite well. I'm just glad that the wind didn't come at the same time as the ice! Yesterday I noticed that one of the larger local yagi installations had been stripped of a couple of elements by the ice and wind. I wonder if any of the group members have had damage to their hexbeams by this year's weather, and exactly which parts of the antenna failed?

K8AC in sunny, snowy, windy NC

1341. Re: Hex-Beaming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-25 15:17:00 UTC
From: James <n4ekz@earthlink.net>
Topic: 1336 Message: 1341

Hey Barry,

I'm glad I stumbled onto this list. I have enjoyed reading about other's experiences with the Hex-Beam.

I'm new to this group and though I've been a licensed ham since 1976, I've been completely inactive for the last 10+ years. I just got back on the air in the last couple of weeks and at the current time, I'm running mostly qrp on the CW HF bands, unless I decide to really saturate the ether with RF; in which case, I pump a whopping 20 WATTS through a tuner and into a G5RV configured as a dipole and suspended at about 30 feet. But enough about my BIG GUN station setup...

I am curious as to what power you were running when you latched on to that VK2 on 12 meters yesterday and how high is your Hex-Beam? ...and any other information along these lines that you think might be relevant.

I haven't exactly committed to a Hex-Beam purchase yet, but I'm sure THINKING HARD about it. If I do, it will probably be mounted on a mast of some kind unless I find a deal (highly doubtful) on a light duty tower around here. I'd prefer not to have to run a bunch of guy wires, but if I go the mast route, I have little choice.

TIA

James

N4EKZ

1342. New to Hamming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-26 00:53:58 UTC
From: kc2jjd <radiohead38@comcast.net>
Topic: 1342 Message: 1342

I am new to ham radio, not that new but new.

I am going to purchase a Hex-Beam Multi band antenna. And also a Glenn Martin Roof mount Tower. I was not aware of this group until I talked to my neighbor WB3FSR Peter, that I found this group.

KC2JJD

1343. Hex Beam in DU Land

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-26 02:43:29 UTC
From: w6hb <w6hb@arrl.net>
Topic: 1343 Message: 1343

Marty, NZ7X/DU is on 21270 right now for you HexCC collectors! 73 - Doug - W6HB

1344. Re: Hex-Beaming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-26 04:56:36 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1336 Message: 1344

--- In hex-beam@yahoogroups.com, "James <n4ekz@e...>" <n4ekz@e...>
wrote:
> Hey Barry,
>
> I'm glad I stumbled onto this list. I have enjoyed reading about
> other's experiences with the Hex-Beam.
>
> I'm new to this group and though I've been a licensed ham since
1976,
> I've been completely inactive for the last 10+ years. I just got
back
> on the air in the last couple of weeks and at the current time, I'm
> running mostly qrp on the CW HF bands, unless I decide to really
> saturate the ether with RF; in which case, I pump a whopping 20
WATTS
> through a tuner and into a G5RV configured as a dipole and
suspended
> at about 30 feet. But enough about my BIG GUN station setup...
>
> I am curious as to what power you were running when you latched on
to
> that VK2 on 12 meters yesterday and how high is your Hex-
Beam? ...and
> any other information along these lines that you think might be
> relevant.

******* Welcome to the group James. I was running 1000 W using a
FT-1000MP with a VL-1000 amp. The Hex-Beam is at about 35 feet AGL.

>
> I haven't exactly committed to a Hex-Beam purchase yet, but I'm
sure
> THINKING HARD about it. If I do, it will probably be mounted on a
mast
> of some kind unless I find a deal (highly doubtful) on a light duty
> tower around here. I'd prefer not to have to run a bunch of guy
wires,
> but if I go the mast route, I have little choice.

I you do go the Hex-Beam route, I'm sure you will find it a blast. I
received a message from Ed (ex P5/4L4FN) that received a Hex-Beam
from some of us last year. In this message he said "... have
to "admit", it gave me big advantage comparing with vertical and its
also true - I made most of my qso's on it and much more easier."
The "it" is the Hex-Beam. Ed is a fine gentleman that we will enjoy
working from his next QTH.

73,
Barry - W4WB

>
> TIA
> James
> N4EKZ

1345. [hex-beam] Re: Hex-Beaming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-26 08:50:04 UTC
From: Boian Petkov
Topic: 1336 Message: 1345

Hello friends,

I have home made 5 band Hex-beam since Nov 2002. You could see some pictures in photo section. RIG
is FT890AT + home made linear on GU74b tube. I have few thousends QSO with this antenna, most of
them in contests. The last one was WPX RTTY where I finnished with 1100 QSOs. We had a lot of wet
snow just before the contest. It start to freeze during the night and hex-beam was coated with abt
2cm of that. I tried to turn the beam left-right to broke the ice without success. SWR was little
bit higher than normal, but performance was OK. Early morning on next day start snow storm. I get
out to look at the beam. Part of the ice was broken, but there were no damages. Wlado,LZ2PL come
at home later. He have 13el LPDA 14-30MHz and he wants to compare it to my beam. The conclusion
was that both antennas are almost equal, but as size... His LPDA have 8.8m boom, longest element
is 11m and weight abt 50kg.
We are planning to make a 40m monobander this summer.

73 de Bob, LZ2BE

_____
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1346. Re: [hex-beam] New to Hamming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-26 13:03:13 UTC
From: Jason Hissong RR
Topic: 1342 Message: 1346

Hi John,

Welcome to the group! I think you will love that configuration. I am having a blast!! Worked Thailand for the first time ever recently and I can get into Asia now. Never really could do that before. The Hexbeam has probably been my best investment yet in this hobby (including the support structure... my house and the tower!! heheh)

Let us know if you have questions, concerns and we will answer them as best we can..

Again, welcome!

Jason Hissong
N8XE
----- Original Message -----
From: kc2jjd <radiohead38@...>
To: hex-beam@yahoogroups.com
Sent: Tuesday, February 25, 2003 7:53 PM
Subject: [hex-beam] New to Hamming

I am new to ham radio, not that new but new.

I am going to purchase a Hex-Beam Multi band antenna. And also a
Glenn Martin Roof mount Tower. I was not aware of this group until I
talked to my neighbor WB3FSR Peter, that I found this group.

KC2JJD

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[Non-text portions of this message have been removed]

1347. Re: [hex-beam] Hex-Beaming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-26 13:10:52 UTC
From: Jason Hissong RR
Topic: 1336 Message: 1347

Hi Doug,

Yea, we need to do a sched soon. My Hexbeam has been performing flawlessly. I have been able to work many new countries (since the hexbeam, 89 to now 126). I am going to make it to the Hamvention in Dayton this year. I want to meet Mike and tell him how great his product is (and get a T-Shirt saying, "I have been Hexed!!" hihi).

The power line noise is still here, except for when it rains. But I will be getting an Power Line noise tracker from MFJ (MFJ 852) and use that to track things down. From what I understand, there is some loose hardware on a pole to my north. No worries... I will find it.

BTW... I have been comparing my Hexbeam to a Force 12 C3SS from a ham down the street and it seems they both do quite well. He has an advantage though to the north because he does not have the power line noise like I do. In fact, a JA sounded a little louder on the dipole only because the power line noise is at a minimum. The signal got louder on the Hexbeam, but so did the line noise. I am patient.
----- Original Message -----
From: w4wb <w4wb@...>
To: hex-beam@yahoogroups.com
Sent: Monday, February 24, 2003 11:44 PM
Subject: [hex-beam] Hex-Beaming

Hey folks, it is rather quiet on the list. Even though the bands have not been very good lately, I have found the Hex-Beam to contiue to perform well. This afternoon, I worked a VK2 on 12 m (propagation prediction program indicated a no-way contact). He was running a 5-element Yagi and 400 W. He was about 53 and my report was 57. We had a great chat. After we signed, he was trying to copy a number of other stations calling him, but they were all in the noise. The two stations he worked before me got 53 to 52 reports as I recall. Also worked, the other day, 5X1DC and SO7V on first and 2nd calls.

We have had several strong storms recently and the HB weathered them well.

Hope your Hex-Beams are doing well for you too.

Traffie told me that he is planning to be at Dayton. I don't know if he plans to set up a demo site. As I recall, the Hamvention group has a 5-band Hex-Beam. Perhaps they will have it up and working.

73,
Barry - W4Wb

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[Non-text portions of this message have been removed]

1348. Re: [hex-beam] New to Hamming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-26 17:59:57 UTC
From: Herbert Meiselman
Topic: 1342 Message: 1348

Hello from beautiful Southern California!

My HB (#188) is mounted on a Glenn-Martin tower (4.5 feet tall...the shortest they make?) and then on the roof of my 2-story house. Thus, it is about 30-35 AGL. Works great! No need for a tuner (SWR less than 1.6 every frequency I want to work) and no guy wires. I'm using a Yaesu rotator but even a simple TV one will be OK (I have been told..but no experience).

SO...go buy the Glenn-Martin tower and the HB, then enjoy!

73,

Herb K6HJM

At 12:53 AM 2/26/03 +0000, you wrote:
>I am new to ham radio, not that new but new.
>
>I am going to purchase a Hex-Beam Multi band antenna. And also a
>Glenn Martin Roof mount Tower. I was not aware of this group until I
>talked to my neighbor WB3FSR Peter, that I found this group.
>
>KC2JJD
>
>
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268

(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

1349. Spider Beam for 10, 15 nad 20 meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-26 19:20:14 UTC
From: tomac14 <tomac14@yahoo.com>
Topic: 1349 Message: 1349

Hi to all:

Below is a URL for a web site showing an antenna called the "Spider Beam" for 10,15 and 20 meters.

Web site===>
http://www.qsl.net/df4sa/spider_specification_english.pdf

Has anyone ever tried this antenna?

How does it compare with our beloved Hexbeam.

Tom, N0YD "Yankee Doodle"

1350. Powerpoles and Powerwerx

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-27 01:39:33 UTC
From: Paulo Marcondes
Topic: 1350 Message: 1350

Guys,

I wish to share my impressions regardind doing bussiness
with Ken Mirabella.

I decided to connectorize my power cords with Powerpoles. I
have a dealer in S?o Paulo, Brazil that carries the PP45
line. They are charging US$3.6 each pair. Molex type
connectors are about 50 cents. They can send me the
connector the same day.

But, as I am also considering buying a Rigrunner, I checked
Powerwerx for prices.
The price range is good, but there was no way I could send
it to myself... Brazil wasn't on the country list.

An email sent to Ken, and he promptly added my country! The
shipping options didn't allow for (very) small orders, like
mine...Just 25 PP45 pairs. Another email and Ken promptly
added another shipping option!

This guy is awesome!

While I was writing this, Ken wrote me again. There is
nothing I can say to express how he care about his
customers... I haven't even placed the order!!
That is Customer Relation Management!!!

NOTE: I am in no way affiliated with Ken, Powerwerx or any
other company implicitly or explicitly mentioned on the
message.

--
Paulo E.P. Marcondes
PU2PIX
pepm@...

1351. Re: [hex-beam] New to Hamming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-27 08:10:32 UTC
From: Boian Petkov
Topic: 1342 Message: 1351

Hello friends,

Here is the same situation like Herb describes. My Hex is mounted on top of a telescopic aluminium
mast, at 1.5m above the roof of my 2-story house without guy wires. I'm using Conrad TV rotator.
All cables are passing through a non-used chimney from the roof to the basement where is my shack.

Since I put this Hex up it became the main attraction in the area. Everybody who walk around stops
for a while and have a look on the beam. My neighbours like it very much and I heard lot of rumors
starting from a sattelite dish till a place to dry cloths..hi..hi.. Even my XYL said that she
prefere this HEX instead of 13el Logperiodic on the roof of LZ2PL! She dont like my 160-30m Vertical in the middle of the garden but this is another story.

73 de Bob LZ2BE

--- Herbert Meiselman <meiselma@...> wrote:
> Hello from beautiful Southern California!
>
> My HB (#188) is mounted on a Glenn-Martin tower (4.5 feet tall...the
> shortest they make?) and then on the roof of my 2-story house. Thus, it is
> about 30-35 AGL. Works great! No need for a tuner (SWR less than 1.6
> every frequency I want to work) and no guy wires. I'm using a Yaesu
> rotator but even a simple TV one will be OK (I have been told..but no
> experience).
>
> SO...go buy the Glenn-Martin tower and the HB, then enjoy!
>
> 73,
>
> Herb K6HJM

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1352. New hex project - Spreader question

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-28 13:14:25 UTC
From: Paulo Marcondes
Topic: 1352 Message: 1352

Hi guys!

THere is another hex project just starting.

After reading the list for 3 months now, I decided that I would build a hex-beam.
I've bought the rig in december, after being a ham for 6 years (not much time on air, though)

Well, the question is about spreader materials...

I believe PVC is not an option here. I've heard that it is too fragile and degrades when exposed to UV radiation. I live in SE Brazil, so we have lots of sunny days.

Fiberglass is the preferred material, isn't it? If so, How did you build the spreaders?
a) Solid long rod? Wich diameter?
b) Telescoping? How? Specs, please...
c) Solid tapered rods? (Not an option for me...I would have to do some machining and I don't own a lathe...)

Did you use any kind of finish (varnish, paint)?

I've found a manufacturer of FG that carries a line of solid rods and tubes in lenghts of 3 and 6 m. Cost of 1" rods is about USD 4/m. Don't have other prices.

Bamboo is my preferred option, since I believe it is much cheaper than FG.
I think I can have it at NO COST. Bud, VE7ASH reports using 1/2" OD dry (yellow) bamboo.
I can take it green, let it dry naturally (might take a week or two). Then I can treat it like wooden fence posts, coat with some varnish or acrilic paint.
I'd like to hear from those who have tried bamboo spreaders.
--
Paulo E.P. Marcondes
Ge?logo - Mestrando USP
pepm@...

1353. Re: [hex-beam] New hex project - Spreader question

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-28 14:34:06 UTC
From: Boian Petkov
Topic: 1352 Message: 1353

Hi Paulo!

I built up a 5 band version 3 months ago. I'm using fishing rods. I bought six 4m long telescopic
rods and removed the last section (smallest diameter). I used fast acting glue on joints of tubes
otherwise they could slide.
If you go to this option be carefull when you tighten the clamps. The wall of fishing rods is
about 0.5mm only.

73 de Bob LZ2BE

--- Paulo Marcondes <pepm@...> wrote:
> Hi guys!
>
> THere is another hex project just starting.
>
> After reading the list for 3 months now, I decided that I
> would build a hex-beam.
> I've bought the rig in december, after being a ham for 6
> years (not much time on air, though)
>
> Well, the question is about spreader materials...
>
> I believe PVC is not an option here. I've heard that it is
> too fragile and degrades when exposed to UV radiation. I
> live in SE Brazil, so we have lots of sunny days.
>
> Fiberglass is the preferred material, isn't it? If so, How
> did you build the spreaders?
> a) Solid long rod? Wich diameter?
> b) Telescoping? How? Specs, please...
> c) Solid tapered rods? (Not an option for me...I would have
> to do some machining and I don't own a lathe...)
>
> Did you use any kind of finish (varnish, paint)?
>
> I've found a manufacturer of FG that carries a line of solid
> rods and tubes in lenghts of 3 and 6 m. Cost of 1" rods is
> about USD 4/m. Don't have other prices.
>
> Bamboo is my preferred option, since I believe it is much
> cheaper than FG.
> I think I can have it at NO COST. Bud, VE7ASH reports using
> 1/2" OD dry (yellow) bamboo.

> I can take it green, let it dry naturally (might take a week
> or two). Then I can treat it like wooden fence posts, coat
> with some varnish or acrilic paint.
> I'd like to hear from those who have tried bamboo spreaders.
> --
> Paulo E.P. Marcondes
> Ge?logo - Mestrando USP
> pepm@...
>

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1354. Re: [hex-beam] New to Hamming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-28 23:04:22 UTC
From: radiohead38
Topic: 1342 Message: 1354

Hello jason.

I emailed you a couple of weeks ago about the Glenn Martin Tower and Hexbeam.

I have another question, I noticed that you installed the tower first. How heavy and how difficult was lifting the antenna and placing it on the mast?

Was that better then installing the antenna and trying to lift the tower and antenna in one shot.

Let me know the weights involved, I am planning this project ASAP.

Thanks and 73's
John Clark
KC2JJD
----- Original Message -----
From: Jason Hissong RR
To: hex-beam@yahoogroups.com
Sent: Wednesday, February 26, 2003 8:03 AM
Subject: Re: [hex-beam] New to Hamming

Hi John,

Welcome to the group! I think you will love that configuration. I am having a blast!! Worked Thailand for the first time ever recently and I can get into Asia now. Never really could do that before. The Hexbeam has probably been my best investment yet in this hobby (including the support structure... my house and the tower!! heheh)

Let us know if you have questions, concerns and we will answer them as best we can..

Again, welcome!

Jason Hissong
N8XE
----- Original Message -----
From: kc2jjd <radiohead38@...>
To: hex-beam@yahoogroups.com
Sent: Tuesday, February 25, 2003 7:53 PM
Subject: [hex-beam] New to Hamming

I am new to ham radio, not that new but new.

I am going to purchase a Hex-Beam Multi band antenna. And also a
Glenn Martin Roof mount Tower. I was not aware of this group until I
talked to my neighbor WB3FSR Peter, that I found this group.

KC2JJD

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1355. Re: [hex-beam] New to Hamming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-01 00:54:57 UTC
From: Jason Hissong RR
Topic: 1342 Message: 1355

Hi John,

Yes, I remember your email. (I am including this email to the group in case there are other interested parties...)

I installed the tower first because having the Hexbeam up there would just make it too cumbersome to move the tower around. Plus, that is wind load up there. It may not be much, but it may be enough to topple it if it is only a couple of guys up there. I used some rope to hoist the antenna up to close to the top. The XYL operated the rope. Once it was at the top, I used one arm to put it on top of the mast. No big deal. Follow all safetly considerations first!! HIHI.

For me, I say put the tower up first. You can always make your own gin pole with a 2 by 4, some clamps, a pulley, and rope. It does not need to be all that elaborate because the Hexbeam is so light.

Keep us posted on your progress!! And let us know if you need any advise. BTW... have you decided on the Hexbeam? You will LOVE IT! Let me know if you want to do a sched.

73
Jason
N8XE

----- Original Message -----
From: radiohead38
To: hex-beam@yahoogroups.com
Sent: Friday, February 28, 2003 6:04 PM
Subject: Re: [hex-beam] New to Hamming

Hello jason.

I emailed you a couple of weeks ago about the Glenn Martin Tower and Hexbeam.

I have another question, I noticed that you installed the tower first. How heavy and how difficult was lifting the antenna and placing it on the mast?

Was that better then installing the antenna and trying to lift the tower and antenna in one shot.

Let me know the weights involved, I am planning this project ASAP.

Thanks and 73's
John Clark
KC2JJD
----- Original Message -----
From: Jason Hissong RR
To: hex-beam@yahoogroups.com
Sent: Wednesday, February 26, 2003 8:03 AM

Subject: Re: [hex-beam] New to Hamming

Hi John,

Welcome to the group! I think you will love that configuration. I am having a blast!! Worked Thailand for the first time ever recently and I can get into Asia now. Never really could do that before. The Hexbeam has probably been my best investment yet in this hobby (including the support structure... my house and the tower!! heheh)

Let us know if you have questions, concerns and we will answer them as best we can..

Again, welcome!

Jason Hissong
N8XE
----- Original Message -----
From: kc2jjd <radiohead38@...>
To: hex-beam@yahoogroups.com
Sent: Tuesday, February 25, 2003 7:53 PM
Subject: [hex-beam] New to Hamming

I am new to ham radio, not that new but new.

I am going to purchase a Hex-Beam Multi band antenna. And also a Glenn Martin Roof mount Tower. I was not aware of this group until I talked to my neighbor WB3FSR Peter, that I found this group.

KC2JJD

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1356. Re: [hex-beam] New to Hamming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-01 01:27:24 UTC
From: Herbert Meiselman
Topic: 1342 Message: 1356

John:

Mount the tower securely on your roof, then decide how to assemble the HB. Since my G-M tower was so short, I was able to put the mast in the tower, then proceed to assemble the tower (base plate onto mast, 6 spreaders onto baseplate, etc). You will need some help (a bit) attaching the wires to the insulators/connectors on the spreaders...two hands to hold the wire in place and one to tighten the screw.

Enjoy!

Herb K6HJM

At 06:04 PM 2/28/03 -0500, you wrote:
>Hello jason.
>
>I emailed you a couple of weeks ago about the Glenn Martin Tower and Hexbeam.
>
>I have another question, I noticed that you installed the tower
>first. How heavy and how difficult was lifting the antenna and placing it
>on the mast?
>
>Was that better then installing the antenna and trying to lift the tower
>and antenna in one shot.
>
>Let me know the weights involved, I am planning this project ASAP.
>
>Thanks and 73's
>John Clark
>KC2JJD
> ----- Original Message -----
> From: Jason Hissong RR
> To: hex-beam@yahoogroups.com
> Sent: Wednesday, February 26, 2003 8:03 AM
> Subject: Re: [hex-beam] New to Hamming
>
>
> Hi John,
>
> Welcome to the group! I think you will love that configuration. I am
> having a blast!! Worked Thailand for the first time ever recently and I
> can get into Asia now. Never really could do that before. The Hexbeam
> has probably been my best investment yet in this hobby (including the
> support structure... my house and the tower!! heheh)
>
> Let us know if you have questions, concerns and we will answer them as

> best we can..
>
> Again, welcome!
>
> Jason Hissong
> N8XE
> ----- Original Message -----
> From: kc2jjd <radiohead38@...>
> To: hex-beam@yahoogroups.com
> Sent: Tuesday, February 25, 2003 7:53 PM
> Subject: [hex-beam] New to Hamming
>
>
> I am new to ham radio, not that new but new.
>
> I am going to purchase a Hex-Beam Multi band antenna. And also a
> Glenn Martin Roof mount Tower. I was not aware of this group until I
> talked to my neighbor WB3FSR Peter, that I found this group.
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> KC2JJD
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

1357. Re: [hex-beam] New to Hamming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-02-28 23:23:16 UTC
From: stanghp93@aol.com
Topic: 1342 Message: 1357

Hey John (KC2JJD)
The beam is light in weight and not hard to put in place. I have mine on a Radio Shack tripod and it works fine at 20 ft. Since Wednesday I have been working on getting the antenna higher. I will be putting it on a 38 Ft. telescoping mast and with the rotor and antenna mast, the hex-beam will be up around 41 ft. I spent a couple of hours on Thursday measuring and cutting my guide wires. I am guiding it in three places, at the rotor and at the next two sections. Today I placed all my anchors in place and hopefully on Saturday I will have the antenna in place. I am looking forward to the height since I have never had an antenna up this high before, hoping it will make a difference. I think we spoke before on the phone about the hex-beam. Good luck with yours, it is an easy antenna to work with and the 5-band is light.
73
DE
Frank (KB2KBC) Bordentown, NJ

[Non-text portions of this message have been removed]

1358. new member

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-01 11:15:30 UTC
From: Andy
Topic: 1358 Message: 1358

hi all
i have just visited your community and I'm really interested into the hex beam.
At the official web site no email address does any member got it? it's very expensive for me to call from italy and i would like to know if they have any Italian or European dealer
best 73

IZ0EHO Andy
icq 16829125
www.qsl.net/iz0eho

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Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.459 / Virus Database: 258 - Release Date: 25/02/2003

[Non-text portions of this message have been removed]

1359. Re: [hex-beam] New to Hamming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-01 12:29:45 UTC
From: Pat Villani
Topic: 1342 Message: 1359

You could have knocked me over with a feather when I read the post from Frank, KB2KBC. This is exactly what I have planned. In fact, I live in Freehold, NJ, which is a short hop from Bordentown. Must be a regional influence ;-)

Frank, please post all your experiences, as I'll be following suit in the spring. I'm not as hardy as you, and will wait for the snow to melt before going out to do antenna work.

I did come up with a rather simple mast support for my inverted vee that I plan to use for the telescoping mast as well. If anyone's interested, I can post photos and a description.

Pat
WB2GBF

1360. Re: new member

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-02 01:20:26 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1358 Message: 1360

Welcome Andy,
TO my knowledge, there are no dealers in EU. Traffie doesn't have email. If you have a lot of questions, try a fax or let one of us call for you.
73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, Andy <leon2000@i...> wrote:
> hi all
> i have just visited your community and I'm really interested into the hex
> beam.
> At the official web site no email address does any member got it? it's very
> expensive for me to call from italy and i would like to know if they have
> any Italian or European dealer
> best 73
>
> IZ0EHO Andy
> icq 16829125
> www.qsl.net/iz0eho
>
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> ---
> ATTENTION
> Outgoing mail is certified Virus Free.
> Checked by AVG anti-virus system (http://www.grisoft.com).
> Version: 6.0.459 / Virus Database: 258 - Release Date: 25/02/2003
>
>
> [Non-text portions of this message have been removed]

1361. Re: [hex-beam] Re: new member

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-02 09:56:00 UTC
From: Andy
Topic: 1358 Message: 1361

Hi Barry and all

yes I have a few question to ask him, if is possible I'll appreciate if you could send a fax with my question and turn me by email the answer. anyway I can also ask here maybe somebody could answer.

1) I have a telescopic tube 29,5 feet long, do I need to change it and get a tower or I can use it?

2) I live in Rome center, so i need a not high impact antenna otherwise my neighbors could make my problem

3) Does anyone knows about TVI problem? I have the TV antenna not far more than 6/7 feet by the tube in which is my antenna, actually I have a monobande 4 elem. yagi for 10 meters and V inverted dipole for 40/80 and with 500 Watts no problem.

4) Do you know how is wide on the top?

Thanks

IZ0EHO Andy
icq 16829125
www.qsl.net/iz0eho

At 02.20 02/03/2003, you wrote:

>Welcome Andy,
>TO my knowledge, there are no dealers in EU. Traffie doesn't have
>email. If you have a lot of questions, try a fax or let one of us
>call for you.
>73,
>Barry - W4WB
>
>--- In hex-beam@yahoogroups.com, Andy <leon2000@i...> wrote:
> > hi all
> > i have just visited your community and I'm really interested into
>the hex
> > beam.
> > At the official web site no email address does any member got it?
>it's very
> > expensive for me to call from italy and i would like to know if
>they have
> > any Italian or European dealer
> > best 73
> >
> > IZ0EHO Andy

> > icq 16829125
> > www.qsl.net/iz0eho
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> > Version: 6.0.459 / Virus Database: 258 - Release Date: 25/02/2003
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1362. Down Under Spreader Info

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-02 10:38:20 UTC
From: David P Douglass
Topic: 1362 Message: 1362

Hi All,

Just a quick note for the few members we have in the less crowded hemisphere!!

I've finally come across a company in Australia that supply quad spreaders (aka Hex Spreaders) in 2.9 and 3.9 metre lengths.

From memory the address is www.kvkantennas.com.au

They are not the cheapest but, also not the most expensive I've seen and come supplied in army green for extra stealth!!

This company seem to be getting into the wire antenna market and the site is worth a browse.

Regards All

David, VK2DPD

1363. Re: new member

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-02 13:58:17 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1358 Message: 1363

Hi Andy,

I think I and others in the Group can answer these questions. If you still want Mike to give them a go, I will send on. Pse see below.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, Andy <leon2000@i...> wrote:
> Hi Barry and all
>
> yes I have a few question to ask him, if is possible I'll appreciate if you
> could send a fax with my question and turn me by email the answer. anyway I
> can also ask here maybe somebody could answer.
>
> 1) I have a telescopic tube 29,5 feet long, do I need to change it and get
> a tower or I can use it?

*** First, I am assuming you are thinking about a 5-band version. Mike sells a 30' mast to mount the Hex-Beam upon so you should be fine. Depending upon what your specific location is with respect to building, type of material, etc., it is reasonable to expect the antenna will perform fine. If you mount your rotor at the top with a short mast above it, the 20-m antenna will be about 34-35', which is okay. Just remember to guy the mast well at three heights including at the rotor area. The Hex-Beam weighs about 9 kg and has relatively low wind loading and almost no induced torque.
>
> 2) I live in Rome center, so i need a not high impact antenna otherwise my
> neighbors could make my problem

*** The Hex-Beam is resonably neighbor friendly. It doesn't look like an antenna people has seen before. The arms are white, but some folks have painted them to blend into the surroundings with great effect.
>
> 3) Does anyone knows about TVI problem? I have the TV antenna not far more
> than 6/7 feet by the tube in which is my antenna, actually I have a
> monobande 4 elem. yagi for 10 meters and V inverted dipole for 40/80 and
> with 500 Watts no problem.

*** If you have no problem with it now given your present setup, you
should be fine. Of course, there is a question about the other HF
bands. You should also use an RF choke on the feedline just below
the antenna's base plate. It is made of about 5-6 Type 77 or 73
ferrite beads that just go around the coax. This choke effectively
eliminates feedline radiation (outside of the coax shield).
>
> 4) Do you know how is wide on the top?

*** The turning radius is just under 3.0 meters. This is for the 10-
20 m version.
>
> Thanks
>
> IZ0EHO Andy
> icq 16829125
> www.qsl.net/iz0eho
>
>
>
>
> At 02.20 02/03/2003, you wrote:
>
> >Welcome Andy,
> >TO my knowledge, there are no dealers in EU. Traffie doesn't have
> >email. If you have a lot of questions, try a fax or let one of us
> >call for you.
> >73,
> >Barry - W4WB
> >
> >--- In hex-beam@yahoogroups.com, Andy <leon2000@i...> wrote:
> > > hi all
> > > i have just visited your community and I'm really interested
into
> >the hex
> > > beam.
> > > At the official web site no email address does any member got
it?
> >it's very
> > > expensive for me to call from italy and i would like to know if
> >they have
> > > any Italian or European dealer
> > > best 73
> > >
> > > IZ0EHO Andy
> > > icq 16829125
> > > www.qsl.net/iz0eho
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> [Non-text portions of this message have been removed]

1364. Re: [hex-beam] Re: new member

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-02 15:16:13 UTC
From: Harry
Topic: 1358 Message: 1364

I've had my HX5Bi up for about 2yrs now. Mounted on the Traffie 30 foot push up mast. Mast is guyed at top and bottom. Rotator is at bottom of mast about two feet off the ground. Rotator turns mast and antenna with no problem. Originally I used a Yaesu G450 rotator. While "adequate" as the mast and antenna weigh only about 40 lbs, I elected to go with a Yaesu G1000DXA --overkill I know by figured I would err on side of snow and ice loading. The arrangement works quite well.

I installed a 5 foot section of conduit pipe (3 feet in ground) with about 200 lbs of Quickcrete to support rotator, mast, antenna.

Initial antenna installation and raising of mast is definitely a two person, if not three, job. Once done, one person can raise and lower mast/antenna combination easily on a not so windy day. A very tall step ladder will allow you to work on parts of the antenna without removing it from mast.

Any locals interested in seeing how I did this welcome to visit qth in Yardley, PA.

Harry WE1X
----- Original Message -----
From: Andy
To: hex-beam@yahoogroups.com
Sent: Sunday, March 02, 2003 4:56 AM
Subject: Re: [hex-beam] Re: new member

Hi Barry and all

yes I have a few question to ask him, if is possible I'll appreciate if you could send a fax with my question and turn me by email the answer. anyway I can also ask here maybe somebody could answer.

1) I have a telescopic tube 29,5 feet long, do I need to change it and get a tower or I can use it?

2) I live in Rome center, so i need a not high impact antenna otherwise my neighbors could make my problem

3) Does anyone knows about TVI problem? I have the TV antenna not far more than 6/7 feet by the tube in which is my antenna, actually I have a monobande 4 elem. yagi for 10 meters and V inverted dipole for 40/80 and with 500 Watts no problem.

4) Do you know how is wide on the top?

Thanks

IZ0EHO Andy
icq 16829125
www.qsl.net/iz0eho

At 02.20 02/03/2003, you wrote:

>Welcome Andy,
>TO my knowledge, there are no dealers in EU. Traffie doesn't have
>email. If you have a lot of questions, try a fax or let one of us
>call for you.
>73,
>Barry - W4WB
>
>--- In hex-beam@yahoogroups.com, Andy <leon2000@i...> wrote:
> > hi all
> > i have just visited your community and I'm really interested into
>the hex
> > beam.
> > At the official web site no email address does any member got it?
>it's very
> > expensive for me to call from italy and i would like to know if
>they have
> > any Italian or European dealer
> > best 73
> >
> > IZ0EHO Andy
> > icq 16829125
> > www.qsl.net/iz0eho
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1365. Hex Beam 5bi vs. 3 element Steppir

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-03 15:26:37 UTC
From: James Olson
Topic: 1365 Message: 1365

Can anyone report on comparision between the 5 band Hex Beam and the 3 element Steppir antennas?

Thanks,

James Olson, W4JO

[Non-text portions of this message have been removed]

1366. Re: Hex Beam 5bi vs. 3 element Steppir

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-04 04:44:24 UTC
From: w4wb <w4wb@arrl.net>
Topic: 1365 Message: 1366

--- In hex-beam@yahoogroups.com, James Olson <sx88ht20@y...> wrote:
>
> Can anyone report on comparision between the 5 band Hex Beam and
the 3 element Steppir antennas?
>
> Thanks,
>
> James Olson, W4JO
>
DOn't know of any direct comparisions, but the HX-5B works very
well. The one person I know that has the StepIR is very pleased with
it too. Big difference is the raw size, with the HB being a lot
smaller and more neighbor friendly. Performance he said is FB.
Can't go wrong with either. Some folks are concerned about the
mechanism holdong up in the StepIR, but I am not after seeing it and
talking with them las year at Dayton.
73,
Barry - W4WB

1367. Hex Blog

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-06 20:56:56 UTC
From: Paulo Marcondes
Topic: 1367 Message: 1367

My hex beam project is on http://hamstuff.blogspot.com
--
Paulo E.P. Marcondes
Ge?logo - Mestrando USP
pepm@...

1368. Re: [hex-beam] New to Hamming

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-07 15:30:36 UTC
From: stanghp93@aol.com
Topic: 1342 Message: 1368

Well, all,
I am back from skiing in Vermont for a week, I left the day after the antenna went up higher. I used the hex-beam on Saturday night and Sunday morning before I left. I want to say that it is about 30+ feet up now and boy what a difference 15 Ft made in reception. The signals are stronger and I hear the New England area down to Virginia (I am a county hunter) much better.
Now for the details on the raising of the Hex-beam. Well, it was a one man job and it got a bit scary at times. As the antenna went higher, it began leaning to one side like a wilted plant. I could not reach the desired 40 feet because the weight became a factor. After locking in, I quickly adjusted my guides and straightened the antenna. I will make more adjustments in the spring and use some additional manpower.
73
de
Frank (KB2KBC)

1369. metal spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-07 21:49:10 UTC
From: K8NKE
Topic: 1369 Message: 1369

was wondering if any one had tried to use metal instead of fiberglass or bamboo for the spreaders on a hex-beam?

tia 73
dale k8nke

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1370. Re: metal spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-08 00:51:08 UTC
From: w4wb
Topic: 1369 Message: 1370

--- In hex-beam@yahoogroups.com, K8NKE <dmess@t...> wrote:
> was wondering if any one had tried to use metal instead of
fiberglass or
> bamboo for the spreaders on a hex-beam?
>
> tia 73
> dale k8nke

Hi Dale,

I believe you would find that the interaction between the spreader and the elements would severely degrade the performance and tuning of the antenna. The use of wire guys on the mast should also be avoided. I also note that there is remarkable interaction between the several elements comprising the 5-band Hex-Beam.

Hope the above was helpful.

73,
Barry - W4WB

1371. 40M Model?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-07 20:43:06 UTC
From: n1eu
Topic: 1371 Message: 1371

If anyone has successfully modeled a 40M design (prefer cw), I'd appreciate getting your wire descriptions. I'm using MMANA but will gladly convert any model files. Grateful for any help.

Thanks & 73,
Barry N1EU

1372. HX 5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-08 17:38:50 UTC
From: tomwa4tp
Topic: 1372 Message: 1372

Hi, i am having some tvi with my hex beam, the hex beam is working great. The best ant, i have had. Tom wa4tp.

1373. Re: HX 5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-08 20:39:41 UTC
From: w6hb
Topic: 1372 Message: 1373

Glad to hear the Hex is FB, Tom. Check out the toroid information
from previous posts to hopefully help with the TVI
issues. 73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "tomwa4tp" <Wa4tpanter@a...> wrote:
> Hi, i am having some tvi with my hex beam, the hex beam is working
> great. The best ant, i have had. Tom wa4tp.

1374. Re: HX 5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-08 21:02:25 UTC
From: w4wb
Topic: 1372 Message: 1374

--- In hex-beam@yahoogroups.com, "tomwa4tp" <Wa4tpanter@a...> wrote:
> Hi, i am having some tvi with my hex beam, the hex beam is working
> great. The best ant, i have had. Tom wa4tp.

Hi Tom,

In addition to the RF choke on the feedline, you might check to be
sure you have a good RF ground too.

73,
Barry - W4WB

1375. Re: 40M Model?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-09 10:49:11 UTC
From: dl7io
Topic: 1371 Message: 1375

Barry,
in the file-section under dl7io is a .zip file with datas for single band designs (80-10m). It includes all eznec files and an excel file to get the XYZ-coordinates out of element lengths and insulator distances. I would like to share your results.
regards Holger

--- In hex-beam@yahoogroups.com, "n1eu" <n1eu@y...> wrote:
> If anyone has successfully modeled a 40M design (prefer cw), I'd
> appreciate getting your wire descriptions. I'm using MMANA but
will
> gladly convert any model files. Grateful for any help.
>
> Thanks & 73,
> Barry N1EU

1376. Re: 40M Model?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-09 14:18:47 UTC
From: n1eu
Topic: 1371 Message: 1376

Thanks Holger! I used your dimensions and modeled it with MMANA. In freespace, MMANA shows max f/b of 16dB at 7.050Mhz and f/b of 6dB at 7.0Mhz and 7.2Mhz. The gain is 6.75dBi at 7.0Mhz and falls to 3.77dBi at 7.2Mhz. MMANA shows 2dBi gain for a dipole for comparison. The 50-ohm SWR is 6.5 at 7.0Mhz, 2.3 at 7.05Mhz, and 1.5 or below 7.1-7.2Mhz.

I need to get the SWR lower 7.0-7.05Mhz while keeping the gain high. I'm a cw op and use a Beverage for receiving so don't care about the f/b figure.

Thanks & 73,
Barry N1EU

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> Barry,
> in the file-section under dl7io is a .zip file with datas for single
> band designs (80-10m). It includes all eznec files and an excel file
> to get the XYZ-coordinates out of element lengths and insulator
> distances. I would like to share your results.
> regards Holger
>
> --- In hex-beam@yahoogroups.com, "n1eu" <n1eu@y...> wrote:
> > If anyone has successfully modeled a 40M design (prefer cw), I'd
> > appreciate getting your wire descriptions. I'm using MMANA but will
> > gladly convert any model files. Grateful for any help.
> >
> > Thanks & 73,
> > Barry N1EU

1377. Re: 40M Model?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-10 00:32:07 UTC
From: Garry
Topic: 1371 Message: 1377

Barry N1EU.

I was able to easily get an swr under 1.5 to 1, in fact it was 1.2 to 1 as I recall. Mind you that was on ten meters (single band hex) however I think it should be duplicable on others bands unless adversely affected by external factors.

Garry Ve7ajj

1378. Re: [hex-beam] Re: 40M Model?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-10 09:57:32 UTC
From: Alex Manuilov
Topic: 1371 Message: 1378

Gary as you said, you got the swr adjusted.
Q;did you trim the wire,if so what lenth/freq did you have wire cut?
Q;what swg/awg or mm thikness wire you used.
Q;insulated or not.

>From: "Garry" <gschumac1@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] Re: 40M Model?
>Date: Mon, 10 Mar 2003 00:32:07 -0000
>
>Barry N1EU.
>
> I was able to easily get an swr under 1.5 to 1, in fact it was 1.2
>to 1 as I recall. Mind you that was on ten meters (single band hex)
>however I think it should be duplicable on others bands unless
>adversely affected by external factors.
>
>Garry Ve7ajj
>

_____
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1379. Can wind degrade the performance of a hex-beam?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-10 21:50:05 UTC
From: Paulo Marcondes
Topic: 1379 Message: 1379

In my search for suitable materials to my HB H-B (homebrew Hex-beam),
I've stumbled in an advice from a brazilian amateur...

He advised me not to use bamboo spreaders, because they flex too much in the wind and it may degrade the radiation pattern of the antenna.

Has anyone experienced such a degrading effect on the hex-beam subject to strong winds (not windstorms) ?

AFAIK, the flexing in the spreaders will not be that much, because of the equilibrium of forces in the spreader-tension wires system. Does this theory witholds in practice?
I am not a mechanics experts, but I am not a completely lay person...
--
Paulo E.P. Marcondes
Ge?logo - Mestrando USP
pepm@...

1380. Re: 40M Model?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-10 23:56:32 UTC
From: Garry
Topic: 1371 Message: 1380

--- In hex-beam@yahoogroups.com, "Alex Manuilov" <manuilov3@h...> wrote:
> Gary as you said, you got the swr adjusted.
> Q;did you trim the wire,if so what lenth/freq did you have wire cut?

I cut the wire according to the formula, Not sure just where I got the formula but it was off this reflector. The wire required absolutly no trimming other than I might have made it slightly longer as I like to work psk and that is in the the cw portion of the band.

I fastened the wire in from the wire ends slightly so that I could have trimmed without having to refasten and in fact I could have just wrapped the wire back on itself rather than cut it if that had been necessary. There are some pictures of my "project" in the photos section. To feed it I simply connected the coax center to one side and the sheild to the other side. Too easy.(see picture 23, 24 --my photos-- you can see the excess at right angles to the elements) I doubt that I ever built an antenna before that required absolutly no adjustment as this one worked out to be. I brought the feedline up above the feedpoint then bent it down so that the feed was from above. My reason for doing this was to allow rain to drip off, rather than to easily penetrate into the coax if my seal (used silicone) was not adequate.

> Q;what swg/awg or mm thikness wire you used.

I used standard household wire number 14 solid. Stretch it a bit before using it and that hardens it and helps to prevent furthur stretching over time.

> Q;insulated or not.

I stripped the insulation off. I am told that leaving the insulation will require that the wire actually be shorter. Removing the insulation reduces weight and the wire soon tarnishes in the weather so become invisible, which also was part of my consideration.

I will be very surprised if you are not tremendously pleased with the antenna.

Check the files section too there is much information there. If I recall ve7ask has a decent write up. Ah heck so do all the others hi. 8>)

Garry Ve7ajj
>
>
> >From: "Garry" <gschumac1@y...>
> >Reply-To: hex-beam@yahoogroups.com

> >To: hex-beam@yahoogroups.com
> >Subject: [hex-beam] Re: 40M Model?
> >Date: Mon, 10 Mar 2003 00:32:07 -0000
> >
> >Barry N1EU.
> >
> > I was able to easily get an swr under 1.5 to 1, in fact it was 1.2
> >to 1 as I recall. Mind you that was on ten meters (single band hex)
> >however I think it should be duplicable on others bands unless
> >adversely affected by external factors.
> >
> >Garry Ve7ajj
> >
>
>
> _____
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> http://ninemsn.com.au/mobilecentral/hotmail_messenger.asp

1381. Re: Can wind degrade the performance of a hex-beam?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-11 00:00:29 UTC
From: Garry
Topic: 1379 Message: 1381

Frankly I can't see it being a big problem. I would guess it will be dependent on the thickness and rigidity of the bamboo that you use. check out the files section, ve7ask built his from bamboo.

Garry ve7ajj

--- In hex-beam@yahoogroups.com, Paulo Marcondes <pepm@o...> wrote:
> In my search for suitable materials to my HB H-B (homebrew
> Hex-beam),
> I've stumbled in an advice from a brazilian amateur...
>
> He advised me not to use bamboo spreaders, because they flex
> too much in the wind and it may degrade the radiation
> pattern of the antenna.
>
>

1382. Re: [hex-beam] Re: Can wind degrade the performance of a hex-beam?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-11 00:17:25 UTC
From: Paulo Marcondes
Topic: 1379 Message: 1382

Garry wrote:
>
> Frankly I can't see it being a big problem. I would guess it will be
> dependent on the thickness and rigidity of the bamboo that you use.
> check out the files section, ve7ask built his from bamboo.

Yes, I seriously doubt that this degradation may be
noticeable.
Maybe measurable with top notch equipment, like those used
to tune satellite antennae :)
--
Paulo E.P. Marcondes
Ge?logo - Mestrando USP
pepm@...

1383. Dual Band VHF/UHF Ant. Above 5 Band Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-11 14:05:25 UTC
From: shibukiau
Topic: 1383 Message: 1383

I am thinking of buying a 5 band version of the Hexbeam after seeing all off the favourable comments in this group. Question I have is --- could I mount a Diamond VHF/UHF vertical colinear ant.above the Hexbeam on the vertical member of the beam?? I have only one tower in a restricted area which means I need to use it for my VHF/UHF ant. as well!!
I would appreciate constructive comments from the group as I can't find an email address for the manufacturer to ask him this question.

Cheers!
VK4ERQ

1384. Re: Dual Band VHF/UHF Ant. Above 5 Band Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-11 16:44:06 UTC
From: Garry
Topic: 1383 Message: 1384

Hi. My experience is that a vertical separation between antennas is much much better than a horizontal separation. Considering that 1. the separation is vertical in this case, the vhf antenna is really out of the radiation field of the hex. 2. the antenna frequencies are quite separated (hf - vhf), I would guess that you would experience no noticible degradation of either antenna.

When experimenting with repeaters some years back (2 mtrs), we learned that using 2 antennas and having the one 20 feet above the other was better than having them the same height but 200 feet apart. Most certainly it is worth a try.

Garry ve7ajj

--- In hex-beam@yahoogroups.com, "shibukiau" <kubisl@i...> wrote:
> I am thinking of buying a 5 band version of the Hexbeam after seeing
> all off the favourable comments in this group. Question I have is ---
> could I mount a Diamond VHF/UHF vertical colinear ant.above the
> Hexbeam on the vertical member of the beam?? I have only one tower
> in a restricted area which means I need to use it for my VHF/UHF ant.
> as well!!
> I would appreciate constructive comments from the group as I can't
> find an email address for the manufacturer to ask him this question.
>
> Cheers!
> VK4ERQ

1385. Re: Dual Band VHF/UHF Ant. Above 5 Band Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-11 18:25:16 UTC
From: w4wb
Topic: 1383 Message: 1385

The center post of the Hex-Beam isn't designed to have anything attached to it such as your vertical. What I suggest is the you mount a non-conductive mast close to the HB base and offset enough to clear. Have it go between the driven and reflector elements on the side opposite the HB feedline keeping it close to the HB center post. Likely will work then.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "shibukiau" <kubisl@i...> wrote:
> I am thinking of buying a 5 band version of the Hexbeam after
seeing
> all off the favourable comments in this group. Question I have is --
-
> could I mount a Diamond VHF/UHF vertical colinear ant.above the
> Hexbeam on the vertical member of the beam?? I have only one tower
> in a restricted area which means I need to use it for my VHF/UHF
ant.
> as well!!
> I would appreciate constructive comments from the group as I can't
> find an email address for the manufacturer to ask him this question.
>
> Cheers!
> VK4ERQ

1386. China!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-12 05:20:34 UTC
From: Jason Hissong RR
Topic: 1386 Message: 1386

Hi guys!

Wanted to let the group know that I finally worked China. Would never had done it without the Hexbeam...

Cool!!!

73,
Jason
N8XE

1387. Re: 40M Model?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-12 13:36:09 UTC
From: dl7io
Topic: 1371 Message: 1387

Barry,
sorry for delay...
That is interesting to hear. I had not much companions in modeling
and did not build a 40 m version yet. So I could not confirm the
results by a practical test.
But there are known problems of the modeling software for
configurations with closed wires. And for our type of antenna the
wires are very close at the feeding point and at the end of the
elements and both points are critical. I don't know MMANA but will
have a look on it. May be it uses another kind of logarythm than NEC2-
or NEC4-based software.
Please put the file into the file section that I can get access to
it.
thanks Holger
--- In hex-beam@yahoogroups.com, "n1eu" <n1eu@y...> wrote:
> Thanks Holger! I used your dimensions and modeled it with MMANA.
In
> freespace, MMANA shows max f/b of 16dB at 7.050Mhz and f/b of 6dB
at
> 7.0Mhz and 7.2Mhz. The gain is 6.75dBi at 7.0Mhz and falls to
> 3.77dBi at 7.2Mhz. MMANA shows 2dBi gain for a dipole for
> comparison. The 50-ohm SWR is 6.5 at 7.0Mhz, 2.3 at 7.05Mhz, and
1.5
> or below 7.1-7.2Mhz.
>
> I need to get the SWR lower 7.0-7.05Mhz while keeping the gain
> high. I'm a cw op and use a Beverage for receiving so don't care
> about the f/b figure.
>
> Thanks & 73,
> Barry N1EU

1388. Re: 40M Model?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-12 23:24:30 UTC
From: n1eu
Topic: 1371 Message: 1388

I uploaded the file into a new N1EU folder in the files section.

FYI, MMANA is freeware and can be downloaded from
http://www.qsl.net/mmhamsoft/mmana/

73,
Barry N1EU

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> Barry,
> sorry for delay...
> That is interesting to hear. I had not much companions in modeling
> and did not build a 40 m version yet. So I could not confirm the
> results by a practical test.
> But there are known problems of the modeling software for
> configurations with closed wires. And for our type of antenna the
> wires are very close at the feeding point and at the end of the
> elements and both points are critical. I don't know MMANA but will
> have a look on it. May be it uses another kind of logarythm than
NEC2-
> or NEC4-based software.
> Please put the file into the file section that I can get access to
> it.
> thanks Holger
> --- In hex-beam@yahoogroups.com, "n1eu" <n1eu@y...> wrote:
> > Thanks Holger! I used your dimensions and modeled it with
MMANA.
> In
> > freespace, MMANA shows max f/b of 16dB at 7.050Mhz and f/b of 6dB
> at
> > 7.0Mhz and 7.2Mhz. The gain is 6.75dBi at 7.0Mhz and falls to
> > 3.77dBi at 7.2Mhz. MMANA shows 2dBi gain for a dipole for
> > comparison. The 50-ohm SWR is 6.5 at 7.0Mhz, 2.3 at 7.05Mhz, and
> 1.5
> > or below 7.1-7.2Mhz.
> >
> > I need to get the SWR lower 7.0-7.05Mhz while keeping the gain
> > high. I'm a cw op and use a Beverage for receiving so don't care
> > about the f/b figure.
> >
> > Thanks & 73,
> > Barry N1EU

1389. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-13 11:25:56 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 1389

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /LZ2BE/40m Hex.maa
Uploaded by : lz2be <lz2be@...>
Description : 40m band MMANA model

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/LZ2BE/40m%20Hex.maa

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

lz2be <lz2be@...>

1390. Re: 40M Model?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-13 11:33:04 UTC
From: lz2be
Topic: 1371 Message: 1390

Hi Barry,
I just uploaded a 40m MMANA model in LZ2BE file section. The way I
did the calculations is the same I did for 5 band version which I'm
using now. If this works for 5band version it should work for 40m too.
The settings are for 20m above real ground.
73 de Bob LZ2BE

--- In hex-beam@yahoogroups.com, "n1eu" <n1eu@y...> wrote:
> I uploaded the file into a new N1EU folder in the files section.
>
> FYI, MMANA is freeware and can be downloaded from
> http://www.qsl.net/mmhamsoft/mmana/
>
> 73,
> Barry N1EU
>
>
> --- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> > Barry,
> > sorry for delay...
> > That is interesting to hear. I had not much companions in
modeling
> > and did not build a 40 m version yet. So I could not confirm the
> > results by a practical test.
> > But there are known problems of the modeling software for
> > configurations with closed wires. And for our type of antenna the
> > wires are very close at the feeding point and at the end of the
> > elements and both points are critical. I don't know MMANA but
will
> > have a look on it. May be it uses another kind of logarythm than
> NEC2-
> > or NEC4-based software.
> > Please put the file into the file section that I can get access
to
> > it.
> > thanks Holger
> > --- In hex-beam@yahoogroups.com, "n1eu" <n1eu@y...> wrote:
> > > Thanks Holger! I used your dimensions and modeled it with
> MMANA.
> > In
> > > freespace, MMANA shows max f/b of 16dB at 7.050Mhz and f/b of
6dB
> > at
> > > 7.0Mhz and 7.2Mhz. The gain is 6.75dBi at 7.0Mhz and falls to
> > > 3.77dBi at 7.2Mhz. MMANA shows 2dBi gain for a dipole for

> > > comparison. The 50-ohm SWR is 6.5 at 7.0Mhz, 2.3 at 7.05Mhz,
and
> > 1.5
> > > or below 7.1-7.2Mhz.
> > >
> > > I need to get the SWR lower 7.0-7.05Mhz while keeping the gain
> > > high. I'm a cw op and use a Beverage for receiving so don't
care
> > > about the f/b figure.
> > >
> > > Thanks & 73,
> > > Barry N1EU

1391. Re: 40M Model?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-13 13:18:55 UTC
From: n1eu
Topic: 1371 Message: 1391

Thanks Bob - your model does yield better results at the low end of
the band.

Thanks & 73,
Barry N1EU

--- In hex-beam@yahoogroups.com, "lz2be" <lz2be@y...> wrote:
> Hi Barry,
> I just uploaded a 40m MMANA model in LZ2BE file section. The way I
> did the calculations is the same I did for 5 band version which I'm
> using now. If this works for 5band version it should work for 40m
too.
> The settings are for 20m above real ground.
> 73 de Bob LZ2BE
>
> --- In hex-beam@yahoogroups.com, "n1eu" <n1eu@y...> wrote:
> > I uploaded the file into a new N1EU folder in the files section.
> >
> > FYI, MMANA is freeware and can be downloaded from
> > http://www.qsl.net/mmhamsoft/mmana/
> >
> > 73,
> > Barry N1EU
> >
> >
> > --- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> > > Barry,
> > > sorry for delay...
> > > That is interesting to hear. I had not much companions in
> modeling
> > > and did not build a 40 m version yet. So I could not confirm
the
> > > results by a practical test.
> > > But there are known problems of the modeling software for
> > > configurations with closed wires. And for our type of antenna
the
> > > wires are very close at the feeding point and at the end of the
> > > elements and both points are critical. I don't know MMANA but
> will
> > > have a look on it. May be it uses another kind of logarythm
than
> > NEC2-
> > > or NEC4-based software.
> > > Please put the file into the file section that I can get access
> to

> > > it.
> > > thanks Holger
> > > --- In hex-beam@yahoogroups.com, "n1eu" <n1eu@y...> wrote:
> > > > Thanks Holger! I used your dimensions and modeled it with
> > MMANA.
> > > In
> > > > freespace, MMANA shows max f/b of 16dB at 7.050Mhz and f/b of
> 6dB
> > > at
> > > > 7.0Mhz and 7.2Mhz. The gain is 6.75dBi at 7.0Mhz and falls
to
> > > > 3.77dBi at 7.2Mhz. MMANA shows 2dBi gain for a dipole for
> > > > comparison. The 50-ohm SWR is 6.5 at 7.0Mhz, 2.3 at 7.05Mhz,
> and
> > > 1.5
> > > > or below 7.1-7.2Mhz.
> > > >
> > > > I need to get the SWR lower 7.0-7.05Mhz while keeping the
gain
> > > > high. I'm a cw op and use a Beverage for receiving so don't
> care
> > > > about the f/b figure.
> > > >
> > > > Thanks & 73,
> > > > Barry N1EU

1392. Re: [hex-beam] China!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-13 14:26:04 UTC
From: stanghp93@aol.com
Topic: 1386 Message: 1392

Congratulations Jason (N8XE) on China. I raised my hex-beam from 18 Ft. to 33 Ft. and the JA's are 3 to 4 s-units louder. Where I was hearing them at S 2, now they are S 5 to S 6. This is much easier on the ears. Keep having fun with the hex-beam, it is the best multi-band antenna I have used.
73
Frank (KB2KBC) in NJ

1393. Balun location

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-16 23:42:41 UTC
From: Greg Fischer
Topic: 1393 Message: 1393

I am almost ready to install my completed HX5Bi. I want to install a bead balun I have laying around from the wireman. The beads are in a pvc sleeve with an SO-239 at one end and a PL-259 attached to a pigtail at the other end.

I would thing using nylon ties attaching it to the center support at the top would be best, but when review balun information on the archieve most mention to put them at the base or just below it.

Any info would be appreciated.

Tnx
Greg
AB7R

[Non-text portions of this message have been removed]

1394. Bead Balun location

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-16 22:08:35 UTC
From: ab7r
Topic: 1394 Message: 1394

Hi all.

I am about ready to put up my tower. The HX5bi is assembled and sitting on the roof right now. I have a spare bead balun from the Wireman that is encased in pvc with an SO-239 on the bottom and a pigtail at the top with a PL-259.

My question is where is the best location for it? I was going to connect the pigtail directly to the antenna and loop it over and wire tie the pvc along the center support of the antenna right at the top.

Or, should I run about a 4 ft length of coax to the antenna and keep the balun at or just below the base of the antenna?

I would think the closer to the antenna feed point the better, but when looking through the archieves, I notice mention of placing them below the base.

Thanks
Greg
AB7R
ab7r@...

1395. Re: Bead Balun location

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-17 06:32:56 UTC
From: w4wb
Topic: 1394 Message: 1395

Hi Greg,

Best to keep it below the base (hub) of the antenna. Problem with having it as you are considering is that it is in the field on the antenna. You should find out it the beads are Type 43 or 73/77 material. 43 is not so good for HF and takes 10-12 to be really useful. Type 77 takes 5-6 and is much more effective.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "ab7r" <ab7r@d...> wrote:
> Hi all.
>
> I am about ready to put up my tower. The HX5bi is assembled and
> sitting on the roof right now. I have a spare bead balun from the
> Wireman that is encased in pvc with an SO-239 on the bottom and a
> pigtail at the top with a PL-259.
>
> My question is where is the best location for it? I was going to
> connect the pigtail directly to the antenna and loop it over and
wire
> tie the pvc along the center support of the antenna right at the
top.
>
> Or, should I run about a 4 ft length of coax to the antenna and
keep
> the balun at or just below the base of the antenna?
>
> I would think the closer to the antenna feed point the better, but
> when looking through the archieves, I notice mention of placing
them
> below the base.
>
> Thanks
> Greg
> AB7R
> ab7r@d...

1396. Re: [hex-beam] Re: Bead Balun location

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-17 08:00:09 UTC
From: Greg Fischer
Topic: 1394 Message: 1396

Thanks Barry. Guess I will put in a short length of coax from the feedpoint, looped over and down the center support and put the balun just below the base plate. The PVC section of the balun is about 10 inches long and uses #73 beads. So I hope this will do an effective job. I am just not a fan of having so many connectors in line between the antenna and the rig. This will require a pl259 from the 4ft length to a barrel connector to the pl-259 of the balun and then the rest of the coax below the balun. I may just order a special one with a 4ft pigtail and connect the balun directly to the antenna. This would still have enough length to be below the antenna's base.

Thanks again.
73
Greg

----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Sunday, March 16, 2003 10:32 PM
Subject: [hex-beam] Re: Bead Balun location

Hi Greg,

Best to keep it below the base (hub) of the antenna. Problem with having it as you are considering is that it is in the field on the antenna. You should find out it the beads are Type 43 or 73/77 material. 43 is not so good for HF and takes 10-12 to be really useful. Type 77 takes 5-6 and is much more effective.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "ab7r" <ab7r@d...> wrote:
> Hi all.
>
> I am about ready to put up my tower. The HX5bi is assembled and
> sitting on the roof right now. I have a spare bead balun from the
> Wireman that is encased in pvc with an SO-239 on the bottom and a
> pigtail at the top with a PL-259.
>
> My question is where is the best location for it? I was going to
> connect the pigtail directly to the antenna and loop it over and
wire
> tie the pvc along the center support of the antenna right at the
top.
>
> Or, should I run about a 4 ft length of coax to the antenna and
keep

> the balun at or just below the base of the antenna?
>
> I would think the closer to the antenna feed point the better, but
> when looking through the archieves, I notice mention of placing
them
> below the base.
>
> Thanks
> Greg
> AB7R
> ab7r@d...

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[Non-text portions of this message have been removed]

1397. Re: Bead Balun location

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-17 13:52:57 UTC
From: w4wb
Topic: 1394 Message: 1397

Hi Greg,

Sounds like a plan. I wouldn't worry about loss in the connectors (about 0.05 dB as I recall) as long as you seal them with Coax Seal or the like. One thing to remember is to locate the coax proximate to the center post exactly as described in the instructions. The use of a couple of cable ties to hold the coax in place is useful.

Lets us know when you get your HB up pse.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Greg Fischer" <ab7r@d...> wrote:
> Thanks Barry. Guess I will put in a short length of coax from the feedpoint, looped over and down the center support and put the balun just below the base plate. The PVC section of the balun is about 10 inches long and uses #73 beads. So I hope this will do an effective job. I am just not a fan of having so many connectors in line between the antenna and the rig. This will require a pl259 from the 4ft length to a barrel connector to the pl-259 of the balun and then the rest of the coax below the balun. I may just order a special one with a 4ft pigtail and connect the balun directly to the antenna. This would still have enough length to be below the antenna's base.
>
> Thanks again.
> 73
> Greg

1398. Re: [hex-beam] Re: Bead Balun location

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-18 00:07:20 UTC
From: Greg Fischer
Topic: 1394 Message: 1398

Will do and thanks.

Greg

----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Monday, March 17, 2003 5:52 AM
Subject: [hex-beam] Re: Bead Balun location

Hi Greg,

Sounds like a plan. I wouldn't worry about loss in the connectors (about 0.05 dB as I recall) as long as you seal them with Coax Seal or the like. One thing to remember is to locate the coax proximate to the center post exactly as described in the instructions. The use of a couple of cable ties to hold the coax in place is useful.

Lets us know when you get your HB up pse.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Greg Fischer" <ab7r@d...> wrote:
> Thanks Barry. Guess I will put in a short length of coax from the feedpoint, looped over and down the center support and put the balun just below the base plate. The PVC section of the balun is about 10 inches long and uses #73 beads. So I hope this will do an effective job. I am just not a fan of having so many connectors in line between the antenna and the rig. This will require a pl259 from the 4ft length to a barrel connector to the pl-259 of the balun and then the rest of the coax below the balun. I may just order a special one with a 4ft pigtail and connect the balun directly to the antenna. This would still have enough length to be below the antenna's base.
>
> Thanks again.
> 73
> Greg

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[Non-text portions of this message have been removed]

1399. Still Smoking DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-18 23:24:02 UTC
From: w4wb
Topic: 1399 Message: 1399

Hi Folks,

Just thought I would share a QSO I had yesterday with John W5GI and Tom WA4TP on 17 m. Tom was weak since we are a bit over 100 miles apart, but John had a nice signal from Austin, TX. John's comment (before I joined in) to Tom, when Tom mentioned he was using a Hex-Beam, was that he has worked a number of guys using the Hex-Beam. Said that they all shared the same characteristic -- loud signals. He confirmed my signal being strong as well when I joined in. Nice to talk to Tom for the first time on the air too. John was using his "famous" W5GI dipole antenna.

Today, I heard 3XY1L on 20 m running a huge pile simplex! Just had to see if I could bust the pile and did on the first call. 3XY1L has good ears and seems a smooth operator although operating split would helped. Of course, his equipment may be limited.

73 es good DX,
Barry - W4WB

1400. Re: [hex-beam] Still Smoking DX

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-18 23:37:31 UTC
From: jr1nhd@mub.biglobe.ne.jp
Topic: 1399 Message: 1400

Hi Barry,

Glad to know you still enjoy breaking into pile-ups.

I also worked 3XY1L this morning (Japan time) on 20m SSB with my Hex (short path from JA). There was no big pile-up among JAs (due to early morning or my good ear?), I called him twice and worked.

Since I put my HX-5Bi up on my condo at 30 meter high from ground level in December 2001, I have not made any maintenance but it still gets lots of DX.

I sometimes tune on HexBUS frequencies but in vain.

Looing foward to working you again soon.

73 - JR1NHD Shin

1401. Maybe stupid question

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-19 11:49:08 UTC
From: Andy
Topic: 1358 Message: 1401

Hi all

Maybe be the following could be a stupid question but for me it is a serious problem.

Should I have problem with the 5Bands version with bird? Yes friends I live in front of a big Park in Rome center and I have all the day 2/3 Birds weight around 7 lbs each one, on the antenna, for the long john 10 meters band now I have no problem, but how could be with a hex-beam loop?

73

IZ0EHO Andy
icq 16829125
www.qsl.net/iz0eho

ATTENTION
Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.463 / Virus Database: 262 - Release Date: 17/03/2003

[Non-text portions of this message have been removed]

1402. Re: [hex-beam] Maybe stupid question

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-19 15:10:07 UTC
From: stanghp93@aol.com
Topic: 1358 Message: 1402

I don't think they will perch on the wires, but it should be no problem on the support arms. I see birds on mine and haven't experienced any problems
Frank (KB2KBC)

[Non-text portions of this message have been removed]

1403. Re: Maybe stupid question

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-19 15:28:40 UTC
From: w4wb
Topic: 1358 Message: 1403

I have seen birds perch on my HB too, but have detected no problem.
Always sit on the tip of the arms. Noticed that a quick blast of CW
at 1 kW clears them. ;-)

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, Andy <leon2000@i...> wrote:
> Hi all
>
> Maybe be the following could be a stupid question but for me it is
a
> serious problem.
>
> Should I have problem with the 5Bands version with bird? Yes
friends I live
> in front of a big Park in Rome center and I have all the day 2/3
Birds
> weight around 7 lbs each one, on the antenna, for the long john 10
meters
> band now I have no problem, but how could be with a hex-beam loop?
>
> 73
>
>
> IZ0EHO Andy
> icq 16829125
> www.qsl.net/iz0eho
>
>
>
> ----------
>
>
> ---
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> Version: 6.0.463 / Virus Database: 262 - Release Date: 17/03/2003
>
>
> [Non-text portions of this message have been removed]

1404. Re: [hex-beam] Maybe stupid question

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-20 16:38:17 UTC
From: Ed Fox
Topic: 1358 Message: 1404

Two thoughts:
Key up the transmitter and tickle their little feet (Behavior
Modification) or stick a plastic owl decoy on the center post. Ed, N0OQ

>From: Andy <leon2000@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com,
>Subject: [hex-beam] Maybe stupid question
>Date: Wed, 19 Mar 2003 12:49:08 +0100
>
>Hi all
>
>Maybe be the following could be a stupid question but for me it is a
>serious problem.
>
>Should I have problem with the 5Bands version with bird? Yes friends I live
>in front of a big Park in Rome center and I have all the day 2/3 Birds
>weight around 7 lbs each one, on the antenna, for the long john 10 meters
>band now I have no problem, but how could be with a hex-beam loop?
>
>73
>
>
>IZ0EHO Andy
>icq 16829125
>www.qsl.net/iz0eho
>
>
>
> ----------
>
>
>---
>ATTENTION
>Outgoing mail is certified Virus Free.
>Checked by AVG anti-virus system (http://www.grisoft.com).
>Version: 6.0.463 / Virus Database: 262 - Release Date: 17/03/2003
>
>
>[Non-text portions of this message have been removed]
>

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1405. Re: [hex-beam] Maybe stupid question

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-20 18:04:51 UTC
From: wa2ntk
Topic: 1358 Message: 1405

Andy; Here in NY state we have a variety of large birds. A decoy Owl has proved most successful at the airport to keep these birds from nesting in and on the aircraft. Also a local ham friend of mine has a decoy Owl on top of the fence in his rear yard to successfully keep birds off of his antennas. Seems like it would be worth a try. All the best and gd health 73 Ralph WA2NTK
P.S. I have been using the 5B version of the HB for 18 months with great success.
rmko218@...

[Non-text portions of this message have been removed]

1406. Traffie at Dayton

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-22 00:35:53 UTC
From: Jason Hissong RR
Topic: 1406 Message: 1406

Hi guys,

I know that Traffie will be at Dayton, anyone know if they are going to be bringing stock? I want to buy a 6M beam from them there..

Thanks!

Jason
N8XE

1407. Re: Traffie at Dayton

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-22 01:58:03 UTC
From: w4wb
Topic: 1406 Message: 1407

Jason,

I am hoping Traffie will be at Dayton. Still a bit up in the air I understand. He will likely have a 6-m HB with him. Why not order from him and save the tax? It is a small and light box. I know, mine is still sitting in the box for over 18 months. :-(

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Jason Hissong RR" <jhisson1@c...> wrote:
> Hi guys,
>
> I know that Traffie will be at Dayton, anyone know if they are going to be
> bringing stock? I want to buy a 6M beam from them there..
>
> Thanks!
>
> Jason
> N8XE

1408. NH2PW QSOs

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-22 02:14:48 UTC
From: w4wb
Topic: 1408 Message: 1408

I had a pair of quick QSOs with Phil NH2PW this afternoon (2200Z) on 15 m and then 17 m. Phil is using a FT-1000MP Field and a HX-5Bi at about 30'. As you might have noticed today, the solar numbers were rather poor; I = 108, A = 12, and K = 4.

Frankly, I had little hope of working Phil since I was hearing absolutely nothing from that part of the world. A H4 was spotted on CW on 17 m, but could not hear him at all. Around 1500Z, I did work H44H who was a good 589 on 17 m. I gave Phil a call at the appointed time on 15 m and, much to my surprise, he replied! He was weak, about 53. We then QSYed to 17 m and made the second contact. He was weaker, about 42. We felt it hopeless to try 10 and 12 m this time. Will wait for better band conditions.

Phil has not had his Hex-Beam up very long --- well, up twice if you recall that rather severe storm recently! He has been operating QRP with a FT-817 and QRO with the Field. Phil is roaring towards 200 worked already. Congratulations Phil! His great QTH on Guam and being desirable DX himself helps. :-)

73,
Barry - W4WB

1409. HU1M, HU1M/3 & DL7IO/HR4

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-22 22:28:45 UTC
From: dl7io
Topic: 1409 Message: 1409

Hello friends,
in case we get all our luggage to Central America we will be able and willing to give you points for your HXCC. Next Monday (24. Mar.) my wife Birgit (DL7IQ) and me are going to El Salvador and Honduras for the next 3 weeks. In El Salvador we got the call HU1M (by the help of Cisco, YS1CF, who is our companion). We will use a FT 890 + homemade pa (500 W) into a homemade 5 bander or vertical/dipole for lower frequencies. Please remember that we are travelling around all the time and have new locations often. And I can't promise that we are on the highest point around ...
We will take part in the WPX-SSB contest and around the 4./5. April we are on Meanguera Isl. (NA-190) for about 3 days. From here we plan to go to a Hondurian Island (Amapala Isl., belonging to NA-060). Here we use homecall/HR4. Most of those areas are out of common power supply so we have our own generator etc.
We hope to catch you on air.
regards Holger, DL7IO
PS. QSL route is DK7AO, via e-mail (hu1m@... for bureau cards) bureau or direct.

1410. Re: HU1M, HU1M/3 & DL7IO/HR4

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-24 21:15:39 UTC
From: w6hb
Topic: 1409 Message: 1410

Good luck and be safe..... We'll be looking for
you! 73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
> Hello friends,
> in case we get all our luggage to Central America we will be able
and
> willing to give you points for your HXCC. Next Monday (24. Mar.) my
> wife Birgit (DL7IQ) and me are going to El Salvador and Honduras
for
> the next 3 weeks. In El Salvador we got the call HU1M (by the help
of
> Cisco, YS1CF, who is our companion). We will use a FT 890 +
homemade
> pa (500 W) into a homemade 5 bander or vertical/dipole for lower
> frequencies. Please remember that we are travelling around all the
> time and have new locations often. And I can't promise that we are
on
> the highest point around ...
> We will take part in the WPX-SSB contest and around the 4./5. April
> we are on Meanguera Isl. (NA-190) for about 3 days. From here we
plan
> to go to a Hondurian Island (Amapala Isl., belonging to NA-060).
Here
> we use homecall/HR4. Most of those areas are out of common power
> supply so we have our own generator etc.
> We hope to catch you on air.
> regards Holger, DL7IO
> PS. QSL route is DK7AO, via e-mail (hu1m@d... for bureau cards)
> bureau or direct.

1411. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-25 10:36:57 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 1411

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /LZ2BE/40-30m Hex-beam.maa
Uploaded by : lz2be <lz2be@...>
Description : 40/30m band MMANA model

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/LZ2BE/40-30m%20Hex-beam.maa

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

lz2be <lz2be@...>

1412. make hexabeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-25 11:09:56 UTC
From: ct1hix
Topic: 1412 Message: 1412

Hello,

I'm new to this group. I want to make hexbeam but cannot find exact dimensions. Can anybody send me that info?

73 CT1HIX

1413. RE: [hex-beam] make hexabeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-27 08:16:05 UTC
From: m0clz
Topic: 1412 Message: 1413

Hi

There are detailed instructions with photo's in the file sections look under dl7io for a very detailed PowerPoint presentation which includes measurements for the centre support and also look under ve7ask for details of building a bamboo hexbeam. I have downloaded the whole file section as different people find different ways of doing things and I am not one for reinventing the wheel :-)

I am still trying to source fibreglass spreaders locally, but when I start I will take photo's and post my progress.

As this is my 1st post to the group I will take this opportunity to say hello to everybody.

Have Fun

Dick M0CLZ

-----Original Message-----
From: ct1hix [mailto:ct1hix@...]
Sent: Tuesday, March 25, 2003 11:10 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] make hexabeam

Hello,

I'm new to this group. I want to make hexbeam but cannot find exact dimensions. Can anybody send me that info?

73 CT1HIX

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Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.463 / Virus Database: 262 - Release Date: 3/17/03

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.463 / Virus Database: 262 - Release Date: 3/17/03

1414. Re: [hex-beam] make hexabeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-27 09:37:37 UTC
From: Larry D. Clark
Topic: 1412 Message: 1414

try:

http://www.iol.ie/~bravo/ahexbeam.htm

larry
kd5foy

----- Original Message -----
From: "m0clz" <m0clz1@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, March 27, 2003 02:16
Subject: RE: [hex-beam] make hexabeam

>
> Hi
>
> There are detailed instructions with photo's in the file sections
> look under dl7io for a very detailed PowerPoint presentation which
> includes measurements for the centre support and also look under
> ve7ask for details of building a bamboo hexbeam. I have downloaded
> the whole file section as different people find different ways of
> doing things and I am not one for reinventing the wheel :-)
>
> I am still trying to source fibreglass spreaders locally, but when I
> start I will take photo's and post my progress.
>
> As this is my 1st post to the group I will take this opportunity to
> say hello to everybody.
>
> Have Fun
>
> Dick M0CLZ
>
> -----Original Message-----
> From: ct1hix [mailto:ct1hix@...]
> Sent: Tuesday, March 25, 2003 11:10 AM
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] make hexabeam
>
>
> Hello,
>
> I'm new to this group. I want to make hexbeam but cannot find exact
> dimensions. Can anybody send me that info?
>
> 73 CT1HIX

>
> ---
> Incoming mail is certified Virus Free.
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> Version: 6.0.463 / Virus Database: 262 - Release Date: 3/17/03
>
> ---
> Outgoing mail is certified Virus Free.
> Checked by AVG anti-virus system (http://www.grisoft.com).
> Version: 6.0.463 / Virus Database: 262 - Release Date: 3/17/03
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>

1415. 5 Band HexBeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-27 12:52:00 UTC
From: nc8n
Topic: 1415 Message: 1415

I am considering using this antenna. I understand that it can be loaded on to 30 & 40 meters thourgh a ATU. Can anyone confirm, and share their experience.

Thanks, Ernie NC8N

1416. Re: 5 Band HexBeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-27 17:30:57 UTC
From: w4wb
Topic: 1415 Message: 1416

--- In hex-beam@yahoogroups.com, "nc8n" <nc8n@a...> wrote:
> I am considering using this antenna. I understand that it can be
> loaded on to 30 & 40 meters thourgh a ATU. Can anyone confirm, and
> share their experience.
>
> Thanks, Ernie NC8N

Hi Ernie,

Yes, it is true. I have done it with the internal tuner in my FT-1000MP, but it is a little tricky at times due to the limitied matching range of the Yaesu tuner. With the LDG AT-11MP, I have used the Hex-Beam (HX-5B) on 30, 40 and 80 m. I have observed remarkable F/B, but I have no idea what the gain might be. I asked Traffie to compare his 40 m Hex-Beam with the HX-5B on 40 m. His observation was that it was 1.5-2 S-units poorer at least. Not bad considering the 40 m HB is a barn burner. In any case, I has given me a capability that I didn't have before. Oh yes, I have also used it on 6 m with the RT-11 tuner and made a modesdt number of contacts (but I rarely get on 6 m).

BTW, Traffie doesn't recommend one way or the other to use the HB on bands for which it was not designed. Our friend David in VK-land is the one that first brought this usage to the group's attention!

73,
Barry - W4WB

73,
Barry - W4WB

1417. Re: [hex-beam] make hexabeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-03-28 00:14:14 UTC
From: Paulo Marcondes
Topic: 1412 Message: 1417

m0clz wrote:

>
> I am still trying to source fibreglass spreaders locally, but when I
> start I will take photo's and post my progress.

Dick, I would suggest you to follow the same path DL7IO had.
Go for fishing rod blanks. I found a suitable one here in
PY-land for around 4 euro. They are of the telescoping type,
probably chinese made. I think one can't get cheaper than
this.

Another OM suggested me to go CPVC (gray) way, it's even
cheaper, but I'm not sure if they suit the need.

BTW...my hex hasn't started yet... But when I have some
progress to show, I'll post (and brag a bit :)
--
Paulo E.P. Marcondes
Ge?logo - Mestrando USP
pepm@...

1418. source of fibre glass whips

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-04 13:46:58 UTC
From: m0clz
Topic: 1412 Message: 1418

Hi

I have been having trouble sourcing fibre glass whips but have found 4 metre fibre glass whips at http://www.bigjohnsangling.co.uk/ they are ?5.49 each under the accessories section.

On the centre pole has anyone tried copper strips with bolts braised to them running along the inside as I don't want to run ribbon cable down the outside ?. Or are there any other ideas for feeding internally ?

Have Fun all

Regards de Dick m0clz

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Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.467 / Virus Database: 266 - Release Date: 4/1/03

1419. Re: source of fibre glass whips

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-04 21:52:36 UTC
From: ei7ba2002
Topic: 1412 Message: 1419

--- In hex-beam@yahoogroups.com, "m0clz" <m0clz1@b...> wrote:
>
> Hi
>
> I have been having trouble sourcing fibre glass whips but have
found
> 4 metre fibre glass whips at http://www.bigjohnsangling.co.uk/ they
> are £5.49 each under the accessories section.

Subject: [hex-beam] source of fibre glass whips

Thanks Dick... That's VERY usefull info..
73
John EI7BA http://www.iol.ie/~bravo/

1420. Still Smaller Hex-Beam?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-05 15:56:03 UTC
From: Paul Schaffenberger
Topic: 1420 Message: 1420

All,

The beauty of the hex beam from an antenna design standpoint is that the portion of the antenna that does the most radiating (the center portion of the quarter-wave) is placed forward (the two tips of the inverted W), while the ends, which radiate least are pulled together.

I have been working on some designs to decrease the radius of the hex beam even further. I've tried two ways of doing this, both involve a "t-bar" at the tips of the W. I have been successful at resonating a hexbeam with a radius of only 8' on 20M.

The t-bar is placed vertically at the tips of the inverted W. There are two techniques for increasing the electrical wavelength, one is by using an electrically "fat" element by using the t-bar as a spacer, the second is by using the t-bar as an active loading device.

I tried the former, using 2' t-bar element at the tips of the W, with the wires tapering to the feedpoint. I believe that using the t-bar as an active loading element may be even more effective, but I have yet to try that.

The implications for a 40M hex-beam may be enormous, as the size could be further reduced without a lot of performance implications. Since you are further driving more of the the radiation to the tips of the W, spacing should not be adversely affected. I will keep you posted on progress. In the mean time, I'd appreciate your thoughts on this approach.

Paul, K5AF

[Non-text portions of this message have been removed]

1421. Re: Still Smaller Hex-Beam?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-05 21:49:44 UTC
From: Garry
Topic: 1420 Message: 1421

Paul Schaffenberger

Sounds great to me Paul. I am about to start on a multiband version of the hexbeam. I built a single band one earlier and now would like to have a go at the multiband one.

I presume that in any tests you have made so far, you have restricted yourself to a single band version, or have you tried this in a multiple band situation yet? Have you any thoughts as to actual perormance such as forward gain and front to back ratios? Do they seem close to those of the standard hex?

You raise a number of questions. HI. I would like to see a diagram or picture of what you are telling us. I would have a better chance to grasp what it is you are doing. I for one would be interested in playing around with the idea.

73

Garry Ve7ajj

1422. Re: [hex-beam] Re: Still Smaller Hex-Beam?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-06 13:49:52 UTC
From: Paul Schaffenberger
Topic: 1420 Message: 1422

Gary,
This system should play well in a multiband configuration, as the t-bar can be used on the lowest frequency band only.
This design uses a rigid, rather than a flexed, pole. I used fiberglass rod. At the end of the element is a vertical rod, which is a spacer. Instead of one wire going to the end of the rod, two wires that are attached at the feedpoint and at the distant end are spread apart at the midpoint of each element to make a physically "fat" conductor.
You probably have seen the MA-5B minibeam, this "fat element" concept is used on the reflector.
You could probably use single wire elements for the higher frequency bands, as they require less space.
I am going to build a ten meter version of this and test it. So far, the 20M version is a bit too ackward to raise above the six foot level.
Garry <gschumac1@...> wrote:Paul Schaffenberger

Sounds great to me Paul. I am about to start on a multiband version of the hexbeam. I built a single band one earlier and now would like to have a go at the multiband one.

I presume that in any tests you have made so far, you have restricted yourself to a single band version, or have you tried this in a multiple band situation yet? Have you any thoughts as to actual perormance such as forward gain and front to back ratios? Do they seem close to those of the standard hex?

You raise a number of questions. HI. I would like to see a diagram or picture of what you are telling us. I would have a better chance to grasp what it is you are doing. I for one would be interested in playing around with the idea.

73

Garry Ve7ajj

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[Non-text portions of this message have been removed]

1423. New Hexbeam #260

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-06 17:37:12 UTC
From: t_ashland
Topic: 1423 Message: 1423

Hi to all in the group. I have been a long time lurker, first time poster. I finally took the plunge and purchased a HX5Bi. I am impressed with the construction of the antenna. It went together in an afternoon last weekend and put it up on the tower at 32 feet yesterday. I took the rotor down for some minor maintenance, so haven't had a chance to check the front to side and front to back, etc. I thought there was something wrong with the antenna because it is much quieter than the 3 element tribander I had up. However, the swr is pretty flat on all the bands, and signals are coming through. Conditions are not good this weekend, but made a few contacts during the EA RTTY contest Sunday morning. In fact, I worked an A4 station! It does load on 30 meters with the internal tuner on my FT-1000MP, but not so lucky on 40, hi! I have other antennas for 80/40 meters. I have read and re-read all the information as well as examined the pictures and files posted by this group. Thanks to all! Hope to check in to the Hex net sometime!
73,
Terry, WK0F

1424. Re: [hex-beam] New Hexbeam #260

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-06 21:47:06 UTC
From: Jason Hissong RR
Topic: 1423 Message: 1424

Terry,

Congrats! I know you will love it. I have been working DX right and left. My hexbeam is not so quite. No fault of the Hexbeam... got some bad components on power lines around here and have not gotten around to solving it yet...

See ya on the air!! Let us know if you want to set up a sched!

Jason
----- Original Message -----
From: t_ashland
To: hex-beam@yahoogroups.com
Sent: Sunday, April 06, 2003 1:37 PM
Subject: [hex-beam] New Hexbeam #260

Hi to all in the group. I have been a long time lurker, first time poster. I finally took the plunge and purchased a HX5Bi. I am impressed with the construction of the antenna. It went together in an afternoon last weekend and put it up on the tower at 32 feet yesterday. I took the rotor down for some minor maintenance, so haven't had a chance to check the front to side and front to back, etc. I thought there was something wrong with the antenna because it is much quieter than the 3 element tribander I had up. However, the swr is pretty flat on all the bands, and signals are coming through. Conditions are not good this weekend, but made a few contacts during the EA RTTY contest Sunday morning. In fact, I worked an A4 station! It does load on 30 meters with the internal tuner on my FT-1000MP, but not so lucky on 40, hi! I have other antennas for 80/40 meters. I have read and re-read all the information as well as examined the pictures and files posted by this group. Thanks to all! Hope to check in to the Hex net sometime!
73,
Terry, WK0F

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[Non-text portions of this message have been removed]

1425. Re: [hex-beam] New Hexbeam #260

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-07 08:40:01 UTC
From: Boian Petkov
Topic: 1423 Message: 1425

Hi Terry,

congratulations for your new Hex-beam!
I have home brew 5 band Hexbeam since few months. We have QSO with you in EA RTTY contest which I remember, because I missed only W0 multiplier! N4BP and AA5AU were louder than you at that time and the other few USA stations were on noise level (S1-S2).

73 de Bob, LZ2BE

--- t_ashland <t_ashland@...> wrote:
> Hi to all in the group. I have been a long time lurker, first time
> poster. I finally took the plunge and purchased a HX5Bi. I am
> impressed with the construction of the antenna. It went together in
> an afternoon last weekend and put it up on the tower at 32 feet
> yesterday. I took the rotor down for some minor maintenance, so
> haven't had a chance to check the front to side and front to back,
> etc. I thought there was something wrong with the antenna because it
> is much quieter than the 3 element tribander I had up. However, the
> swr is pretty flat on all the bands, and signals are coming through.
> Conditions are not good this weekend, but made a few contacts during
> the EA RTTY contest Sunday morning. In fact, I worked an A4
> station! It does load on 30 meters with the internal tuner on my FT-
> 1000MP, but not so lucky on 40, hi! I have other antennas for 80/40
> meters. I have read and re-read all the information as well as
> examined the pictures and files posted by this group. Thanks to
> all! Hope to check in to the Hex net sometime!
> 73,
> Terry, WK0F
>
>

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Yahoo! Tax Center - File online, calculators, forms, and more
http://tax.yahoo.com

1426. Re: [hex-beam] make hexabeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-08 21:28:12 UTC
From: Gomes
Topic: 1412 Message: 1426

Thanks Dick

73 Gomes CT1HIX

----- Original Message -----
From: m0clz
To: hex-beam@yahoogroups.com
Sent: Thursday, March 27, 2003 9:16 AM
Subject: RE: [hex-beam] make hexabeam

Hi

There are detailed instructions with photo's in the file sections look under dl7io for a very detailed PowerPoint presentation which includes measurements for the centre support and also look under ve7ask for details of building a bamboo hexbeam. I have downloaded the whole file section as different people find different ways of doing things and I am not one for reinventing the wheel :-)

I am still trying to source fibreglass spreaders locally, but when I start I will take photo's and post my progress.

As this is my 1st post to the group I will take this opportunity to say hello to everybody.

Have Fun

Dick M0CLZ

-----Original Message-----
From: ct1hix [mailto:ct1hix@...]
Sent: Tuesday, March 25, 2003 11:10 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] make hexabeam

Hello,

I'm new to this group. I want to make hexbeam but cannot find exact dimensions. Can anybody send me that info?

73 CT1HIX

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Version: 6.0.463 / Virus Database: 262 - Release Date: 3/17/03

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1427. Homebrew construction help.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-08 19:56:02 UTC
From: beavis
Topic: 1427 Message: 1427

Because of a major lack of $, I'm forced to homebrew a hexbeam. It looks decently easy and cheap to build one. I spent about three hours reading some of the posts here on the hexbeam group. I read a couple of the websites, viewed the files I could get to open, and looked at a few pictures of the hexbeam too. (what is the .ez file for?)
Anyways I'm looking for help in building one/instructions that are geared towards the less knowledgeable antenna homebrewer like myself. So far the things that look the hardest is going to be the element height on the legs of the hex and the height on the main pipe.
The hexbeamcalcv2.xls document seems to be the one I need for the dimensions(?), but I guess I don't understand how to read them. My last question is where to get the fiber glass rods. Is there anywhere in American that is easy to pick one up?
Thanks for reading and thanks for any help.
Jacob
kc8tlf
73

1428. Re: source of fibre glass whips

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-10 03:29:42 UTC
From: ve7ask
Topic: 1412 Message: 1428

Having built a five-band hex using spreaders made of bamboo garden stakes strapped together with hoseclamps, I am ready to tackle one of DF4SA's "Spider Beam" antennas.

Descriptions of that antenna are on Con's site:
http://www.qsl.net/df4sa/index_spider.htm

This one really does demand fiberglass spreaders. I found an inexpensive source at the Cabelas.com online shop.

http://www.cabelas.com/cabelas/en/templates/product/horizontal-item.jhtml?id=0011698115799a&navAction=push&navCount=3&indexId=cat20238&podId=0011698&catalogCode=ID&parentId=cat20238&parentType=index&rid=

I ordered four of the Classic Crappie Pole 16.5-foot telescoping poles, cost: US$9.99 each. They showed up five days later by UPS. Total cost for four, including shipping and border duties was a shade over $90 Canadian, or about US$55.

If the link above doesn't work in your browser, just go to http://www.cabelas.com and click "Fishing Rods" then "Crappie Rods".... Look for "Cabela's Crappie System and Rods"

Nope, I have no stake in Cabelas, but I remember how frustrating it was to have no local source of good spreader poles for my hex project, and how expensive other online options seemed to be. I hope this info will help some other homebrewer build a better hex than the one I clamped together. I love my homebrewed hex, but those bamboo spreaders are looking mighty shakey after a rough winter in the air.

Will let the group know how the Spider Beam project goes. It's a relative monster with a 33-foot boom, and full-sized interlaced wire yagis. If I play my cards right, I might even have the new antenna up for the last part of this weekend's JA International CW contest :)

If the spider beam doesn't perform, I will rebuild my trusty hex using the more durable fiberglass spreaders.

73,

Bud, VE7ASK

--- In hex-beam@yahoogroups.com, "m0clz" <m0clz1@b...> wrote:
>
> Hi
>
> I have been having trouble sourcing fibre glass whips but have

found
> 4 metre fibre glass whips at http://www.bigjohnsangling.co.uk/ they
> are £5.49 each under the accessories section.
>
> On the centre pole has anyone tried copper strips with bolts
braised to
> them running along the inside as I don't want to run ribbon cable
down
> the outside ?. Or are there any other ideas for feeding
internally ?
>
> Have Fun all
>
> Regards de Dick m0clz
>

1429. Worldradio May 2003 / HX-5Bi vs. TA32Jr

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-15 03:06:09 UTC
From: w6hb
Topic: 1429 Message: 1429

Any comments on this antenna comparison article?

73 - Doug - W6HB

1430. Re: Worldradio May 2003 / HX-5Bi vs. TA32Jr

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-15 21:55:19 UTC
From: tomac14
Topic: 1429 Message: 1430

Hi Doug:

On page 21 it says: ". . . in San Francisco, California, the difference was 1-2 S-units in favor of the Hex-beam. We believe the difference noticed may be due to a difference in angle of radiation between the two antennas."

Hey, 1-2 S-units is "only" 6 to 12 db difference, not a minor difference!!!!!

And the article says: "We believe the difference noticed may be due to a difference in radiation angle." This sounds like the difference in radiation angle had nothing to do with the antennas themselves.

Tom, N0YD "Yankee Doodle"

****

--- In hex-beam@yahoogroups.com, "w6hb" <w6hb@a...> wrote:
> Any comments on this antenna comparison article?
>
> 73 - Doug - W6HB

1431. Re: Worldradio May 2003 / HX-5Bi vs. TA32Jr

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-15 21:55:30 UTC
From: tomac14
Topic: 1429 Message: 1431

Hi Doug:

On page 21 it says: ". . . in San Francisco, California, the difference was 1-2 S-units in favor of the Hex-beam. We believe the difference noticed may be due to a difference in angle of radiation between the two antennas."

Hey, 1-2 S-units is "only" 6 to 12 db difference, not a minor difference!!!!!

And the article says: "We believe the difference noticed may be due to a difference in radiation angle." This sounds like the difference in radiation angle had nothing to do with the antennas themselves.

Tom, N0YD "Yankee Doodle"

****

--- In hex-beam@yahoogroups.com, "w6hb" <w6hb@a...> wrote:
> Any comments on this antenna comparison article?
>
> 73 - Doug - W6HB

1432. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-16 20:19:05 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 1432

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /TA-32Jr-N vs HX-5Bi.xls
Uploaded by : w6hb <w6hb@...>
Description : TA-32Jr vs. HX-5Bi (N1ULV in Worldradio May 2003)

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/TA-32Jr-N%20vs%20HX-5Bi.xls

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

w6hb <w6hb@...>

1433. Comments on the WorldRadio HB article

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-16 23:08:47 UTC
From: w4wb
Topic: 1433 Message: 1433

It was nice to see an attempt to make some OTA comparisions of the HB and another antenna. I have a few small comments about the methods and results.

First, it is a shame that the antennas were not located at the "proper" height --- 40' mast for the Hex-Beam. Yes, the HB works as does the TA-32Jr at 20', but the performance isn't the same as when at the proper height. On the other hand, those were the masts they had to use, so FB to running the tests anyway.

Second, using an S-meter for comparision is dangerous regarding interpretation of results. If you look at the data, the 7 dB difference in signal (10-50 W) resulted in 9 dB difference at one location and 12 dB at another. It is much better to use a calibrated attenuator at each receiver to obtain the same S-meter reading when monitoring the transmitter carrier switching between the two antennas. This removes the S-meter calibration issue.

Third, I wish they had made the comparision with a 3-element trapped beam (at the proper height) too or instead. That would have been a more interesting comparision IMO.

Nevertheless, I think they did a great service making the effort and reporting the results! Also thanks go to WorldRadio for publishing their article.

Hopefully others will make more comparisions and report on them.

I note that at the last Field Day, I used a HB that was about 56' AGL, which was too high (because that was the preset tower height). According to the model I use, the beam on 20 m splits into two lobes. Because the number of stations on during FD is high and because our station (K4BigFatTurkey) is rather "popular," I was able to "see" the footprint. For example, I could be working both 1's and 4's but no 2's at one time and then we could watch the shift over the 4's and 1's up to the 2's and VE's. THis year I have requested that the FD setup group remove one 10' section from the tower to solve that "problem."

73,
Barry - W4WB

1434. Re: Antenna height

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-17 12:44:17 UTC
From: David Douglass
Topic: 1434 Message: 1434

Hi Barry and long time no hear!!

Regarding you observations of the radiation pattern with height! I can remember seeing other plots of radiation angle with height and I thought that many beams show a 'splitting' of the signal as the height increases? Even though, from memory the lower lobe is the biggest and at a lower angle than the lobe for antennas around the halfwave mark!

So therefore, for working DX it is still better to have the antenna higher and have the lobe split, than having one big lobe that radiates a higher angle! "So the theory goes, anyway!!"

I've just checked this out for a few beams and quads using some modelling software and they all look pretty much the same..

For example, a 20M beam at 10metres height has one lobe, with maximum radiation around 25-30?. Whilst a 20M beam at 20M height has a main and minor lobe. The main lobe is around 15? and the minor lobe is between 40-50?.

Whilst you lose a portion of your signal if you have the antenna at 20M above ground, the main part is radiating at a better angle for DX (~15? instead of ~25?).

I've never modeled the Hex, so I'm not totally sure that this is the case with it, but I'd be surprised if it isn't?? What angle do you get for your lobe at half wavelength??

I suppose if your looking at working W2 from W4, the higher angles would be better, but I'd prefer the lower angle for working VK2 back home to Blighty!!.

Anyway, that's my tuppence worth, and I always found my Homebrew Hex at 33 feet worked a treat.

Hope your well Barry and have a nice Easter.

All the best

David, VK2DPD

1435. Re: Antenna height

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-17 16:10:58 UTC
From: w4wb
Topic: 1434 Message: 1435

--- In hex-beam@yahoogroups.com, "David Douglass"
<david.douglass@o...> wrote:
> Hi Barry and long time no hear!!
>
> Regarding you observations of the radiation pattern with height! I
can
> remember seeing other plots of radiation angle with height and I
thought
> that many beams show a 'splitting' of the signal as the height
increases?
> Even though, from memory the lower lobe is the biggest and at a
lower angle
> than the lobe for antennas around the halfwave mark!
>
> So therefore, for working DX it is still better to have the antenna
higher
> and have the lobe split, than having one big lobe that radiates a
higher
> angle! "So the theory goes, anyway!!"

**** Generally so David. My comments were really focused on FD
work. Even so, I think the 5/8 lamdba for 20 m is about right for
the "work horse" height. Members in our DX club generally agree that
if you have but one beam, the 40-footish range is the best choice.
All of our BIG guns have one at 40', 65', and 90' (approx) with >90%
of the work being done with the lower antenna. W/O question, there
are times that the 90' brings home the bacon (so to speak).

>
> I've just checked this out for a few beams and quads using some
modelling
> software and they all look pretty much the same..
>
> For example, a 20M beam at 10metres height has one lobe, with
maximum
> radiation around 25-30°. Whilst a 20M beam at 20M height has a main
and
> minor lobe. The main lobe is around 15° and the minor lobe is
between
> 40-50°.
>
> Whilst you lose a portion of your signal if you have the antenna at
20M
> above ground, the main part is radiating at a better angle for DX
(~15°

> instead of ~25º).
>
> I've never modeled the Hex, so I'm not totally sure that this is
the case
> with it, but I'd be surprised if it isn't?? What angle do you get
for your
> lobe at half wavelength??

**** I agree that most antenna behave about the same in this
respect. Same for the HB as far as the model goes. I still am not
confident that the model methods is proper for the Hex-Beam, but who
cares ... it works well enough to keep me happy. :-)

The model shows no significant lobe at 33.5' (ht. of 20 m element
mounted on 30' mast) with TOA of 28 degs. Traffie tunes his HBs at
43.5' (40' mast/tower). TOA is 22 degs with a 2nd lobe just forward
of vertical with peak at -8 dB. This is 5/8 lambda. At 65', you
have two lobes with the TOA of 15 degs and 49 degs. A -20 dB null is
at 32 degs. The upper lobe peak is -2 dB. This is representaive of
what I experienced at the FD last year.

>
> I suppose if your looking at working W2 from W4, the higher angles
would be
> better, but I'd prefer the lower angle for working VK2 back home to
> Blighty!!.

**** Actually, I am just trying to max the number of contacts. We
finished in the top 10 last year overall. Having a hole in the
coverage is a bummer IMO since contact opportunities are lowered.
This year I hope to have it at the 5/8 lambda height. That will give
(???) an elevation beam range of 7 to 43 degs at the -6 dB points (-1
S-unit). If the model is reasonably correct, this will give me the
performance for which I am looking. Hey, I would love to work more
VK and other DX during the FD, but we logged very few ... maybe only
one percent. Not counting the VEs in this. They were very active.

>
> Anyway, that's my tuppence worth, and I always found my Homebrew
Hex at 33
> feet worked a treat.
>
> Hope your well Barry and have a nice Easter.

**** Tnx David. FB Easter to you and your family as well. Hope to
hear you on the air again soon. BTW, I just got the first of the LDG
AT-1000 autotuners. Handles 1 KW, small box, light weight, and nice
looking. Oh yes, it works great! Now I will have a means to
overcome the limitation of the tuner in the VL-1000. Amazing that
LDG is able to have a SRP of $599 for this unit. HRO, AES, and we
are selling it for less already as might be expected.

73 es CUL,
Barry - w4WB

>
> All the best
>
> David, VK2DPD

1436. Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-19 18:25:21 UTC
From: wa2ntk
Topic: 1436 Message: 1436

Happy Easter Weekend to all!! This morning I worked S05X (Western Shara) on 20 Meters. He was 5/5 in my shack with heavy QRM. He had a large pile-up but I managed to get him on my third call. Antenna is a 5Bi. I could not hear him at all on my vertical antenna. 212 countries and counting and not a linear amp in sight. All the best, safe travels es good health to all. Ralph WA2NTK

1437. QST - no add this month?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-20 04:13:55 UTC
From: k0fuz
Topic: 1437 Message: 1437

No Hex beam add this month in QST - what's up?

1438. Re: [hex-beam] Worldradio May 2003 / HX-5Bi vs. TA32Jr

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-21 01:10:45 UTC
From: Meiselman
Topic: 1429 Message: 1438

Doug:

A fast read of the article seems to suggest three comments: 1) the HB and the other antenna (brand X?) did about the same, with the HB a bit better at times; 2) the article does not seem to be very "scientific"; 3) based on the article, I'm not sure which antenna (if either) to buy.

I'm still extremely pleased with my HB, but if I were looking for a new antenna, the article would not have been of much help.

73 - Herb - K6HJM

At 03:06 AM 4/15/2003 +0000, you wrote:
>Any comments on this antenna comparison article?
>
>73 - Doug - W6HB
>
>
>Yahoo! Groups Sponsor
><http://us.ard.yahoo.com/M=249982.3083889.4452939.1728375/D=egroupweb/S=1705063108:HM/A=1524963/R=0/*http://hits.411web.com/cgi-bin/autoredir?camp=556&lineid=3083889&prop=egroupweb&pos=HM>273dba.jpg
>
>273e6c.jpg
>
>To unsubscribe from this group, send an email to:
>hex-beam-unsubscribe@yahoogroups.com
>
>
>
>Your use of Yahoo! Groups is subject to the
><http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

[Non-text portions of this message have been removed]

1439. HEIGHT AND ELEVATION ANGLE

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-21 05:04:16 UTC
From: Andrea & Chuck Bridges
Topic: 1439 Message: 1439

Interesting discussion about the relationship between height and elevation angle . . .

Chapter 23 of the ARRL Antenna Book has a discussion about elevation angles. The example in the text looks at the Boston-Europe path over the entire 11-year solar cycle. The key thing to note is that the elevation angle varies quite dramatically, in this example from 1 to 28 degrees. Clearly, some angles are more predominate, such as 4 degrees, 5 degrees and 11 degrees, but there are openings at significant openings into the teens and low twenties. What this suggests to me is that for consistent communications, I need to pay attention not only to the azimuth nulls, but also elevation nulls when putting together my antenna system.

Thanks for getting me to pick up the books again!

73,

Chuck AK6DV

1440. Re: HEIGHT AND ELEVATION ANGLE

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-21 17:30:29 UTC
From: w4wb
Topic: 1439 Message: 1440

Hi Chuck,

Good observations. If the 20 m Hex-beam element is at 43.5' (40' tower), the elevation beam goes from 4-46 degs at the -12 dB points and 7-40 degs at the -6 dB points. These values are based upon the model I used in EZNEC; however, it is my observation that Traffie's assertion that the field is flatten somewhat appears to be more or less valid based upon beacon monitoring and using W6ELProp to play with angles and hops. The beam in elevation seems to be depressed a bit from the model's peak of 21 degs and doesn't respond at the higher elevation angles as well as the model predicts.

I simple note that my observations are just that, observations. Making quantitative measurements of TOA to each beacon monitored isn't easy and amounted to tweaking values to attempt to match the observations. Of course, W6ELProp adds another level of uncertainty.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Andrea & Chuck Bridges" <AK6DV@a...> wrote:
> Interesting discussion about the relationship between height and elevation
> angle . . .
>
> Chapter 23 of the ARRL Antenna Book has a discussion about elevation angles.
> The example in the text looks at the Boston-Europe path over the entire
> 11-year solar cycle. The key thing to note is that the elevation angle
> varies quite dramatically, in this example from 1 to 28 degrees. Clearly,
> some angles are more predominate, such as 4 degrees, 5 degrees and 11
> degrees, but there are openings at significant openings into the teens and
> low twenties. What this suggests to me is that for consistent
> communications, I need to pay attention not only to the azimuth nulls, but
> also elevation nulls when putting together my antenna system.
>
> Thanks for getting me to pick up the books again!
>
> 73,

>
> Chuck AK6DV

1441. HU1M photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-23 08:53:28 UTC
From: dl7io
Topic: 1441 Message: 1441

Hello,
I have uploaded 3 pictures (Photos --> DL7IO) of our DXpedition to El Salvador. Thanks for giving us a call to everybody who worked us.
Holger
PS: QSL via DK7AO, bureau is the best and cheapest way

1442. [hex-beam] HU1M photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-23 12:31:48 UTC
From: sysop@bfdin.com
Topic: 1441 Message: 1442

Where do we go to look at the pictures?

HE>Hello,
HE>I have uploaded 3 pictures (Photos --> DL7IO) of our DXpedition to El
HE>Salvador. Thanks for giving us a call to everybody who worked us.
HE>Holger
HE>PS: QSL via DK7AO, bureau is the best and cheapest way

1443. I have a question.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-22 23:05:40 UTC
From: beavis
Topic: 1443 Message: 1443

I was thinking when you guys were talking about take off angles, could you get a azumith rotor to vary the angle? The hex beam should be light enough for one shouldn't it?

1444. Re: HU1M photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-23 13:48:59 UTC
From: w4wb
Topic: 1441 Message: 1444

Go to the "Photos" section of the web site for this group. Look on
the left side. Then Look at the last 3 images in the DL7IO folder.
73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, sysop@b... wrote:
> Where do we go to look at the pictures?
>
> HE>Hello,
> HE>I have uploaded 3 pictures (Photos --> DL7IO) of our DXpedition
to El
> HE>Salvador. Thanks for giving us a call to everybody who worked us.
> HE>Holger
> HE>PS: QSL via DK7AO, bureau is the best and cheapest way

1445. Re: I have a question.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-23 13:50:48 UTC
From: w4wb
Topic: 1443 Message: 1445

--- In hex-beam@yahoogroups.com, "beavis" <beavista@y...> wrote:
> I was thinking when you guys were talking about take off angles,
> could you get a azumith rotor to vary the angle? The hex beam
should
> be light enough for one shouldn't it?

You could do that OM, but it isn't a real good idea. Try it in a
modeling program with any Yagi and you will see the results.

73,
Barry - W4WB

1446. [hex-beam] Re: HU1M photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-23 16:14:18 UTC
From: sysop@bfdin.com
Topic: 1441 Message: 1446

Barry,

Thanks!
- Bill N3LLR

HE>Go to the "Photos" section of the web site for this group. Look on
HE>the left side. Then Look at the last 3 images in the DL7IO folder.
HE>73,
HE>Barry - W4WB

HE>--- In hex-beam@yahoogroups.com, sysop@b... wrote:
HE>> Where do we go to look at the pictures?
HE>>
HE>> HE>Hello,
HE>> HE>I have uploaded 3 pictures (Photos --> DL7IO) of our DXpedition
HE>to El
HE>> HE>Salvador. Thanks for giving us a call to everybody who worked us.
HE>> HE>Holger
HE>> HE>PS: QSL via DK7AO, bureau is the best and cheapest way

HE>To unsubscribe from this group, send an email to:
HE>hex-beam-unsubscribe@yahoogroups.com

HE>

HE>Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

1447. Re: I have a question.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-25 07:40:35 UTC
From: pb1tt
Topic: 1443 Message: 1447

hello Barry (and the others),
Interesting thread. I have been playing with the idea also, mainly based on my VHF-experience with satellites and EME for which it is necessary to vary the azimuth. I don't have a modeling program, but could you tell what is actually going "wrong" with HF-beams?
greetings, Peter

> > I was thinking when you guys were talking about take off angles,
> > could you get a azumith rotor to vary the angle? The hex beam
> should
> > be light enough for one shouldn't it?
>
> You could do that OM, but it isn't a real good idea. Try it in a
> modeling program with any Yagi and you will see the results.
>
> 73,
> Barry - W4WB

1448. First Timer

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-23 21:43:23 UTC
From: laasesmed
Topic: 1448 Message: 1448

I am a first timer hex builder and have some questions:::

Do the spreaders have to bend up on a singlebander??
If i am going to build a multibander 20/15/10 what is the distance
from the feedingpoint to the first connectionpoint on the spreader
ex. 20m

1449. Re: First Timer

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-28 13:18:24 UTC
From: dl7io
Topic: 1448 Message: 1449

--- In hex-beam@yahoogroups.com, "laasesmed" <laasesmed@y...> wrote:
> I am a first timer hex builder and have some questions:::
>
> Do the spreaders have to bend up on a singlebander??
> If i am going to build a multibander 20/15/10 what is the distance
> from the feedingpoint to the first connectionpoint on the spreader
> ex. 20m

Hello laasesmed,
the distance from the feedingpoint to the first connectionpoint on the spreader is half the length of one element leg or a quarter of the full element length (plus insulator length). For 20m it is about 2,80m-2,85m wire length. On the spreader it is a bit more close to 3m because the spreader needs to get the shape of an inverted umbrella.
regards Holger

1450. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-28 14:40:40 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 1450

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /DSCN1064.JPG
Uploaded by : daisyjkfi <daisyjkfi@...>
Description : 30/20m hexbeam by OH4JK

You can access this file at the URL

http://groups.yahoo.com/group/hex-beam/files/DSCN1064.JPG

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

daisyjkfi <daisyjkfi@...>

1451. Re: New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-04-28 19:16:33 UTC
From: dl7io
Topic: 483 Message: 1451

OH4JK,
this looks great.
Please let us know details!!! dimensions, feeding?
Holger

1452. A few questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-02 20:07:27 UTC
From: rmf01
Topic: 1452 Message: 1452

I would be grateful for any comments re the followwing:

I expect to be moving to a new location and instead of retaining my small KLM tribander (KT34), biting the bullet and purchasing this rather expensive HexBeam 5 bander.

The KT34 has, despite it's small size, has been a terrific performer re apparent gain but not so hot on apparent F/B ratio. Wonder if any of you could comment on what to expect with the Hexbeam relative to a small tribander.

I have a 40 foot self-supporting aluminum tower. Since I gather that interactions with other conductors can affect performance in a major fashion, wonder how far above the apex of the tower to mount the Hexbeam and how far away any wire antennas, supported by the tower, should be from the tower.

Is there any information about take of angle at various heights. Does your experience support this surprising contention that 40 ft is an optimal ht?

Finally, since I am in the Boston area, can you tell me how this antenna is likely to fare under New England winter conditions? I realize that this is a light antenna with a low profile but what would the surface area be in sq ft. ?

Any advice would be appreciated.

Tnx,

Rich W1TSP

[Non-text portions of this message have been removed]

1453. Re: [hex-beam] A few questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-05 15:53:27 UTC
From: n1ix@att.net
Topic: 1452 Message: 1453

I am also in the Boston area (SE New Hampshire). I have only had my HexBeam (HX5Bi) one winter. It was a fairly harsh winter as you probably know. The HexBeam stood up well with no problems at all.
I have my HexBeam on a 52 ft. crankup tower but I have found that the best hieght is around 40 ft. Through some on the air tests I have verified that the f/b ratio is aprox 20db. on 15 meters. The side nulls are exceptional. A South American station said I completely faded out with the side towards him when I turned the HexBeam.
I don't think you will get the forward gain that you had with the KT34. Also, through some on the air tests I have pegged the HexBeam imperically at 6 - 8db forward gain.
I am very pleased with the HexBeam. It really is a solid performer and fits my situation well.
Dave N1IX
> I would be grateful for any comments re the followwing:
>
> I expect to be moving to a new location and instead of retaining my small KLM
> tribander (KT34), biting the bullet and purchasing this rather expensive HexBeam
> 5 bander.
>
> The KT34 has, despite it's small size, has been a terrific performer re
> apparent gain but not so hot on apparent F/B ratio. Wonder if any of you could
> comment on what to expect with the Hexbeam relative to a small tribander.
>
> I have a 40 foot self-supporting aluminum tower. Since I gather that
> interactions with other conductors can affect performance in a major fashion,
> wonder how far above the apex of the tower to mount the Hexbeam and how far away
> any wire antennas, supported by the tower, should be from the tower.
>
> Is there any information about take of angle at various heights. Does your
> experience support this surprising contention that 40 ft is an optimal ht?
>
> Finally, since I am in the Boston area, can you tell me how this antenna is
> likely to fare under New England winter conditions? I realize that this is a
> light antenna with a low profile but what would the surface area be in sq ft. ?
>
> Any advice would be appreciated.
>
> Tnx,
>
> Rich W1TSP
>
> [Non-text portions of this message have been removed]
>
>

>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
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>

1454. Re: [hex-beam] A few questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-05 16:00:33 UTC
From: rmf01
Topic: 1452 Message: 1454

Thanks very much Dave.

----- Original Message -----
From: <n1ix@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, May 05, 2003 11:53 AM
Subject: Re: [hex-beam] A few questions

> I am also in the Boston area (SE New Hampshire). I have only had my
HexBeam
> (HX5Bi) one winter. It was a fairly harsh winter as you probably know. The
> HexBeam stood up well with no problems at all.
> I have my HexBeam on a 52 ft. crankup tower but I have found that the best
> hieght is around 40 ft.

OK, so you confirm this interesting property. In that case would you
recommend that the antenna be at the apex of my 40 ft tower rather than on a
5 foot mast?

Through some on the air tests I have verified that the
> f/b ratio is aprox 20db. on 15 meters. The side nulls are exceptional. A
South
> American station said I completely faded out with the side towards him
when I
> turned the HexBeam.
> I don't think you will get the forward gain that you had with the KT34.
Also,
> through some on the air tests I have pegged the HexBeam imperically at 6 -
8db
> forward gain.

Would that be DBi or DBd?

73 Rich

> I am very pleased with the HexBeam. It really is a solid performer and
fits my
> situation well.
> Dave N1IX
> > I would be grateful for any comments re the followwing:
> >
> > I expect to be moving to a new location and instead of retaining my
small KLM
> > tribander (KT34), biting the bullet and purchasing this rather expensive
HexBeam
> > 5 bander.
> >

> > The KT34 has, despite it's small size, has been a terrific performer
re
> > apparent gain but not so hot on apparent F/B ratio. Wonder if any of you
could
> > comment on what to expect with the Hexbeam relative to a small
tribander.
> >
> > I have a 40 foot self-supporting aluminum tower. Since I gather that
> > interactions with other conductors can affect performance in a major
fashion,
> > wonder how far above the apex of the tower to mount the Hexbeam and how
far away
> > any wire antennas, supported by the tower, should be from the tower.
> >
> > Is there any information about take of angle at various heights. Does
your
> > experience support this surprising contention that 40 ft is an optimal
ht?
> >
> > Finally, since I am in the Boston area, can you tell me how this
antenna is
> > likely to fare under New England winter conditions? I realize that this
is a
> > light antenna with a low profile but what would the surface area be in
sq ft. ?
> >
> > Any advice would be appreciated.
> >
> > Tnx,
> >
> > Rich W1TSP
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
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1455. Re: [hex-beam] A few questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-05 17:19:00 UTC
From: n1ix@att.net
Topic: 1452 Message: 1455

The crank-up tower made it easy to try different heights. I didn't see any improvement above 40 ft. or any degradation either. I would use the 5' mast if it were me.
They say "if you can see rust on your mast ... that your antenna isn't high enough".
I guess that it doesn't apply with a HexBeam.
I'm not sure which units Dbi or DBd (I am at work and on't have my handbook with me).
I any case 6 of them = 1 S unit. The gain is about the same as a 2 elememt mono-bander.

Dave N1IX

> Thanks very much Dave.
>
> ----- Original Message -----
> From: <n1ix@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Monday, May 05, 2003 11:53 AM
> Subject: Re: [hex-beam] A few questions
>
>
> > I am also in the Boston area (SE New Hampshire). I have only had my
> HexBeam
> > (HX5Bi) one winter. It was a fairly harsh winter as you probably know. The
> > HexBeam stood up well with no problems at all.
> > I have my HexBeam on a 52 ft. crankup tower but I have found that the best
> > hieght is around 40 ft.
>
>
> OK, so you confirm this interesting property. In that case would you
> recommend that the antenna be at the apex of my 40 ft tower rather than on a
> 5 foot mast?
>
>
>
> Through some on the air tests I have verified that the
> > f/b ratio is aprox 20db. on 15 meters. The side nulls are exceptional. A
> South
> > American station said I completely faded out with the side towards him
> when I
> > turned the HexBeam.
> > I don't think you will get the forward gain that you had with the KT34.
> Also,
> > through some on the air tests I have pegged the HexBeam imperically at 6 -
> 8db

> > forward gain.
>
>
> Would that be DBi or DBd?
>
>
> 73 Rich
>
>
>
> > I am very pleased with the HexBeam. It really is a solid performer and
> fits my
> > situation well.
> > Dave N1IX
> > > I would be grateful for any comments re the followwing:
> > >
> > > I expect to be moving to a new location and instead of retaining my
> small KLM
> > > tribander (KT34), biting the bullet and purchasing this rather expensive
> HexBeam
> > > 5 bander.
> > >
> > > The KT34 has, despite it's small size, has been a terrific performer
> re
> > > apparent gain but not so hot on apparent F/B ratio. Wonder if any of you
> could
> > > comment on what to expect with the Hexbeam relative to a small
> tribander.
> > >
> > > I have a 40 foot self-supporting aluminum tower. Since I gather that
> > > interactions with other conductors can affect performance in a major
> fashion,
> > > wonder how far above the apex of the tower to mount the Hexbeam and how
> far away
> > > any wire antennas, supported by the tower, should be from the tower.
> > >
> > > Is there any information about take of angle at various heights. Does
> your
> > > experience support this surprising contention that 40 ft is an optimal
> ht?
> > >
> > > Finally, since I am in the Boston area, can you tell me how this
> antenna is
> > > likely to fare under New England winter conditions? I realize that this
> is a
> > > light antenna with a low profile but what would the surface area be in
> sq ft. ?
> > >
> > > Any advice would be appreciated.
> > >

> > > Tnx,
> > >
> > > Rich W1TSP
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> > >
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1456. Hex-Beam Happy in the Wind

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-06 19:30:11 UTC
From: w4wb
Topic: 1456 Message: 1456

We have had a night and day of tornadic wx, thunder storms, and HEAVY rains (> 8" in some areas). Winds were 40-50 mph with gusts over 60 mph. My Hex-Beam just sort of slightly rocked about in this wx and suffered no ill effects it appears. Hate to think how a Yagi in the same location would have withstood the wx.
73,
Barry - W4WB

1457. Re: [hex-beam] Hex-Beam Happy in the Wind

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-06 20:20:40 UTC
From: rmf01
Topic: 1456 Message: 1457

Thanks, that's a great endorsement. Have you been happy with the gain?

Rich
----- Original Message -----
From: "w4wb" <w4wb@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, May 06, 2003 3:30 PM
Subject: [hex-beam] Hex-Beam Happy in the Wind

> We have had a night and day of tornadic wx, thunder storms, and HEAVY
> rains (> 8" in some areas). Winds were 40-50 mph with gusts over 60
> mph. My Hex-Beam just sort of slightly rocked about in this wx and
> suffered no ill effects it appears. Hate to think how a Yagi in the
> same location would have withstood the wx.
> 73,
> Barry - W4WB
>
>
>
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>
>
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>

1460. Re: Hex-Beam Happy in the Wind

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-07 02:15:34 UTC
From: w4wb
Topic: 1456 Message: 1460

--- In hex-beam@yahoogroups.com, "rmf01" <rmf01@a...> wrote:
> Thanks, that's a great endorsement. Have you been happy with the
gain?
>
> Rich

Good grief! Yahoo went mad and started posting on its own. Kindly
ignore the prior two posts.

Anyway, I have been happy with the antenna. It is quiet and hears
well. Others seem to hear me well. I commonly get better reports
than I would otherwise expect and typically bust pile ups on first or
second call. I have about 300 entities worked. Added TX4PG
yesterday on 17 m CW. One of those first call contacts. I have no
idea how to determine the "true" gain of this antenna, but am
confident that it beats a 3-element trap Yagi. If I had the space
and such, the 4-element Fluidmotion looks very interesting; however,
it is BIG by comparision. If you looks at occupied volume, then the
Hex-Beam is a lcaer winner over anything I know of so far.

About the storm ... I massive tree made a neighbor's car a very
compact one due to the storm. The HB just "ignored" the wind. Its
near-symmetrical design takes off the torque on the rotor and mast.

73,
Barry - W4WB

1461. Dayton

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-07 03:10:38 UTC
From: Jason Hissong
Topic: 748 Message: 1461

Hey guys,

Anyone going to Dayton this year? I will be there on Friday. I really want to meet Mike and see how things are.

I still give my endorsement for the Hexbeam. It is perfect for what I want in an antenna. I have been QSLing lately and I just got BG2EX's QSL in the mail. Talk about exciting!!! WHOOHOO!

Anyways... my new QSLs has my Hexbeam on it.

We need to start getting skeds together... have not talked to W6HB and W4WB in a while... (I miss you guys :0)

Anyways... N8XE is still here and cooking with gas with the Hexbeam. Also, please note to anyone who is considering the Hexbeam, my site has recordings of the difference between a Hexbeam and an inverted V dipole at the same height.

73!!

Jason Hissong
N8XE

1462. Re: Dayton

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-07 03:22:31 UTC
From: w4wb
Topic: 748 Message: 1462

Hi Jason,

Pse drop by Botths 113 & 114 and say hi. When I spoke with Mike last week, it was rather iffy if they were going to Dayton now. I plan to speak with him tomorrow and find out for sure. Will post the results. Congratulations on BG2EX!

CU there,
Barry - W4WB

--- In hex-beam@yahoogroups.com, Jason Hissong <jhisson1@c...> wrote:
> Hey guys,
>
> Anyone going to Dayton this year? I will be there on Friday. I really
> want to meet Mike and see how things are.
>
> I still give my endorsement for the Hexbeam. It is perfect for what I
> want in an antenna. I have been QSLing lately and I just got BG2EX's
> QSL in the mail. Talk about exciting!!! WHOOHOO!
>
> Anyways... my new QSLs has my Hexbeam on it.
>
> We need to start getting skeds together... have not talked to W6HB and
> W4WB in a while... (I miss you guys :0)
>
> Anyways... N8XE is still here and cooking with gas with the Hexbeam.
> Also, please note to anyone who is considering the Hexbeam, my site has
> recordings of the difference between a Hexbeam and an inverted V dipole
> at the same height.
>
> 73!!
>
> Jason Hissong
> N8XE

1463. Traffie at Dayton ---> Rochester

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-07 13:40:50 UTC
From: w4wb
Topic: 1463 Message: 1463

Hi Folks,

I spoke with Mike this morning and verified that he will NOT be at Dayton this year. Instead, they will be showing at the Rochester Hamfest about two weeks after Dayton. Rochester offered him a great location in the middle of the "Dome" while he wasn't able to get a similar location at Dayton. Being that they are so close together, it is difficult to even consider doing both.

73,
Barry - W4WB

1464. Re: [hex-beam] Re: Dayton

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-07 22:30:09 UTC
From: Jason Hissong
Topic: 748 Message: 1464

Hi Barry,

I will definately stop by and say hello. Too bad Mike cannot make it to Dayton. :(

73
Jason

w4wb wrote:
> Hi Jason,
>
> Pse drop by Botths 113 & 114 and say hi. When I spoke with Mike last
> week, it was rather iffy if they were going to Dayton now. I plan to
> speak with him tomorrow and find out for sure. Will post the
> results. Congratulations on BG2EX!
>
> CU there,
> Barry - W4WB
>

1465. building 40M hex fiberglass source and size

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-07 19:26:31 UTC
From: nhdjinn
Topic: 1465 Message: 1465

Need abot 20' of fiberglass for each arm. Max gain has some but I'm
not sure how big of a dia I need or does some else have any ideas
Dave KC1Q

1466. Help with materials.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-14 01:40:51 UTC
From: beavis
Topic: 1466 Message: 1466

I am currently working on putting together a homebrew version of the hex beam. I am almost ready to put it together, but out of cash, I need to find some way of attaching the wire ends to the rope. Does anyone know of a cheap way to attach them together?
kc8tlf

1467. Re: Help with materials.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-14 10:43:46 UTC
From: on4ccw
Topic: 1466 Message: 1467

--- In hex-beam@yahoogroups.com, "beavis" <beavista@y...> wrote:
> I am currently working on putting together a homebrew version of
the
> hex beam. I am almost ready to put it together, but out of cash, I
> need to find some way of attaching the wire ends to the rope. Does
> anyone know of a cheap way to attach them together?
> kc8tlf
Hello OM, if you look in my photo section , you will find the
photo " attachement". This is a very cheap way of connecting (it is
used for connecting metal wires) and it allows you to alter the
lenght afterwords, so don't cut the wire but bend it around the
bolt, the same for the ather end (of non conductive material)
Hope this helps...
Peter
ON4CCW

1468. Re: Help with materials.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-14 11:13:32 UTC
From: beavis
Topic: 1466 Message: 1468

I was at Home Depot and didn't see anything like that when I was
there. I asked a couple employees there, and they said all they had
was those u bolts for cables. Where would I find those on4ccw?
Thanks
kc8tlf

\--- In hex-beam@yahoogroups.com, "on4ccw" <peter.allaert@h...> wrote:
> --- In hex-beam@yahoogroups.com, "beavis" <beavista@y...> wrote:
> > I am currently working on putting together a homebrew version of
> the
> > hex beam. I am almost ready to put it together, but out of cash, I
> > need to find some way of attaching the wire ends to the rope. Does
> > anyone know of a cheap way to attach them together?
> > kc8tlf
> Hello OM, if you look in my photo section , you will find the
> photo " attachement". This is a very cheap way of connecting (it is
> used for connecting metal wires) and it allows you to alter the
> lenght afterwords, so don't cut the wire but bend it around the
> bolt, the same for the ather end (of non conductive material)
> Hope this helps...
> Peter
> ON4CCW

1469. Re: [hex-beam] Help with materials.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-14 11:25:08 UTC
From: Boian Petkov
Topic: 1466 Message: 1469

Hi KC8TLF,

I'm using a plastic rope for drying clothes - $1/20m, few meters donated by my XYL..hi..hi..
Wire end is connected directly to the rope without any insulator and it works at 1kW here.

73 de Bob LZ2BE

--- beavis <beavista@...> wrote:
> I am currently working on putting together a homebrew version of the
> hex beam. I am almost ready to put it together, but out of cash, I
> need to find some way of attaching the wire ends to the rope. Does
> anyone know of a cheap way to attach them together?
> kc8tlf
>
>

_____
Do you Yahoo!?
The New Yahoo! Search - Faster. Easier. Bingo.
http://search.yahoo.com

1470. Re: Help with materials.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-15 09:48:03 UTC
From: on4ccw
Topic: 1466 Message: 1470

--- In hex-beam@yahoogroups.com, "beavis" <beavista@y...> wrote:
Hi Beavis
i find them at "do it yourself" stores
73'S
Peter
ON4CCW

> I was at Home Depot and didn't see anything like that when I was
> there. I asked a couple employees there, and they said all they had
> was those u bolts for cables. Where would I find those on4ccw?
> Thanks
> kc8tlf
>
> \--- In hex-beam@yahoogroups.com, "on4ccw" <peter.allaert@h...>
wrote:
> > --- In hex-beam@yahoogroups.com, "beavis" <beavista@y...> wrote:
> > > I am currently working on putting together a homebrew version
of
> > the
> > > hex beam. I am almost ready to put it together, but out of
cash, I
> > > need to find some way of attaching the wire ends to the rope.
Does
> > > anyone know of a cheap way to attach them together?
> > > kc8tlf
> > Hello OM, if you look in my photo section , you will find the
> > photo " attachement". This is a very cheap way of connecting (it
is
> > used for connecting metal wires) and it allows you to alter the
> > lenght afterwords, so don't cut the wire but bend it around the
> > bolt, the same for the ather end (of non conductive material)
> > Hope this helps...
> > Peter
> > ON4CCW

1471. 6 meter

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-15 10:01:40 UTC
From: on4ccw
Topic: 1471 Message: 1471

Hi all, i had my homebrew beam for about 8 months now and worked indonesia, japan, canada, america, south africa and so on...out of europe; all with 100 watt. So no complaints here. I have some fiberglass rods now, so i'll repace my bamboo spreaders in the future.
As i'm making chances, i would like to add a 6 meter element , fed with an separate coax cable.The other elements are all fed with one cable according to the instruction of Holger and are fine.
Any remarks?
Maybe an "mmana" goeroe can predict what will happen???
Thanks for the info
PS: i have had trouble with my light TV rotor : it is the second one that breaks down, when the antenna turns because of the wind; at an sudden moment in time it is near the "dead" turning point on the nord side of the rotor.As the wind turns the antenna away from this point, and towards it again, it gets small "bangs" and breaks eventually.
73'S
Peter
ON4CCW

1472. My hex beam project.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-17 14:25:25 UTC
From: beavis
Topic: 1472 Message: 1472

Well, so far my homebrew hex beam is down in signal from my offcenter fed dipole. The only band I can get it to tune on with an swr under 3:1 is 20 meters. I still have more tuning to go, but I'm still a tad frustrated.
I was looking at quads on eham reviews and found this link.
http://www.mgs4u.com/
It says they are a wholesale supplier of fiberglass.

"Max-Gain Systems, Inc. is a wholesale supplier of fiberglass tube and rod to many of the best-known names in antenna manufacturing, both in the ham radio and military markets. We supply more fiberglass to more antenna manufacturers than any company in the world. We also supply fiberglass to many other industries, such as ultralight aircraft, tool handles, tents, driveway markers, towed aircraft banners, electrical utilities, universities, national laboratories, and the inventor with an idea for a new product. We are a unique source for sleeving adjacent sizes, in stock, and in even single piece quantity for prototyping! No need to pay for mill-runs just to see if a prototype will work.Our contacts and relationships allow us to provide superior product at lower cost than a single commercial user dealing direct with a single factory. Let us quote on your needs!"

1473. Re: source of fibre glass whips

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-20 18:19:05 UTC
From: ve3cwo
Topic: 1412 Message: 1473

Yes, I have tried that. I used copper plumbers coil, which has
punched holes about every 3/4 inch or so. I soldered brass bolts
through selected holes, and easily threaeded them through a two
inch OD plastic pipe. I also ran a third strip down the
interior "back" of the pipe and tied all the reflectors together.
A ten foor length of that coil is more than plenty to make the three
strips that I used.
Good luck - Doug - VE3CWO

--- In hex-beam@yahoogroups.com, "m0clz" <m0clz1@b...> wrote:
>
> Hi
>
> I have been having trouble sourcing fibre glass whips but have
found
> 4 metre fibre glass whips at http://www.bigjohnsangling.co.uk/ they
> are £5.49 each under the accessories section.
>
> On the centre pole has anyone tried copper strips with bolts
braised to
> them running along the inside as I don't want to run ribbon cable
down
> the outside ?. Or are there any other ideas for feeding
internally ?
>
> Have Fun all
>
> Regards de Dick m0clz
>
>
> ---
> Outgoing mail is certified Virus Free.
> Checked by AVG anti-virus system (http://www.grisoft.com).
> Version: 6.0.467 / Virus Database: 266 - Release Date: 4/1/03

1474. Hex-Beam Upside Down?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-20 22:34:32 UTC
From: Dan Fitch
Topic: 1474 Message: 1474

I live in a deed-restricted development . Sigh.

Have any of you turned a hex-beam upside down, so that it looks more or less like an umbrella? How well does it work?

Picture this crazy idea. I□m seriously considering the construction of a wooden gazebo in the back yard, hexagonal of course, and thought that I might disguise a hex-beam in the roof. The dimensions would be about right for a 17M-6M version. 20M would really be stretching it, unless it was inductively loaded. Some of the available umbrella coverings are pretty impervious to weather (I live in Florida) and transparent to HF. The spreaders could be supported/stabilized by wheels in a notched track around the top of the gazebo frame, and a rotor hidden in the floor, with a wood or PVC □mast□ up the center. Am I desperate, crazy, or what?

Do any of you have any (constructive) suggestions on this (besides moving or committing myself)?

Oh, and since most outdoors structures are screened with Mylar around here, due to the critters, the screen door would be locked before operating the rig .

73 de Dan/KB4L
Antenna-Challenged NASA guy.

[Non-text portions of this message have been removed]

1475. (care and) Feeding your multiband Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-20 01:24:35 UTC
From: john_dilo
Topic: 1475 Message: 1475

I have a question about feeding a multiband (10, 12, 15, 17, and 20 m) hexbeam. Most of what I have seen on this group and elsewhere on the web suggests that a common feedline is used. Doesn't that affect performance on 10 and 12 m? These two bands are very close, so one would expect these elements to de-tune the other. Also, since 10 m is harmonically related to 20 m, won't the 20 m element radiate some on 10 m transmissions, and again, detune the antenna here?

Thanks for the bandwidth.

regards and 73
John DiLorenzo
K8DIL

1476. (care and) Feeding your multiband Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-20 01:23:58 UTC
From: john_dilo
Topic: 1475 Message: 1476

I have a question about feeding a multiband (10, 12, 15, 17, and 20 m) hexbeam. Most of what I have seen on this group and elsewhere on the web suggests that a common feedline is used. Doesn't that affect performance on 10 and 12 m? These two bands are very close, so one would expect these elements to de-tune the other. Also, since 10 m is harmonically related to 20 m, won't the 20 m element radiate some on 10 m transmissions, and again, detune the antenna here?

Thanks for the bandwidth.

regards and 73
John DiLorenzo
K8DIL

1477. Re: (care and) Feeding your multiband Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-22 14:43:21 UTC
From: dl7io
Topic: 1475 Message: 1477

Hello John,
you are absolutely right. 10/12m are influencing each other very strong. But it is the same with separate feeding. My experiences were that the neighboring bands are influenced while changing any element length. I had no problem with 20/10m.
I was trying to find a solution for a feeding with 50 Ohm coax cable (easier to rebuild) but I got only 4 bands working. 20-15m was no problem but I could only add 10 or 12m not both together. I did not invest much time on those experiments because I was using a friends property that time and had to build up and remove the whole antenna system everytime/everyday...
I may start again on this in late summer when we moved to our own property.
regards Holger

1478. Re: [hex-beam] (care and) Feeding your multiband Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-24 14:05:41 UTC
From: wa2ntk
Topic: 1475 Message: 1478

John; I have just gotten around to reading this weeks emails. In regards to the de-tuning of adjacent bands. I have a 5Bi and my experience has been my Kenwood TS 930 sees approximately 1:5 to 1:9 on 4 bands without the tuner. The exception is 20 meters. I need to use the tuner on that band. My Icom 706MKIIG provides a low swr on all bands without the tuner. Except of course when there is snow or ice on the wires.(both radios)
I'm not into nor do I understand the physics behind most antennas. Certainly not the Hex Beam. It just seems to work and works well indeed.
Ralph WA2NTK .
rmko218@...

[Non-text portions of this message have been removed]

1479. Now I know

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-24 14:18:04 UTC
From: richlim11
Topic: 1479 Message: 1479

Well I have been on this list for several months now and am embarassed to say that I have had Hexpack s/n064 for 9mo without ever taking it out and using it. This all changed yesterday. I finally took the beam out and set her up for 20m. MAN-O-MAN, I should have been using this thing all along. I truly heard thing on the Hexbeam at 20ft (on the patio deck and portapole) which my minibeam at 35ft did not hear! I called a fellow in NY state from Chicago and did an on air comparison, I was at least 2 S-units (12dB?) better on the hexbeam vs my usual antenna! I know know what all the hype is about. Hopefully, I'll be able to convince the XYL to let me mount a 5b Hexbeam on the roof! I guess that I am now one of the believers.
Rich
KQ9L

1480. Re: Now I know

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-25 12:35:06 UTC
From: dl7io
Topic: 1479 Message: 1480

Rich,
check your minibeam and it's installation. I guess there will be something wrong with. Or simply change only the beams for a comparision but leave all cables etc. Nevertheless it is important that you noticed the bad working system!
regards Holger
PS. A35WG who is currently active uses my homemade beam. He counts for HXCC.

1481. Re: Now I know

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-26 19:24:46 UTC
From: Steve Melachrinos
Topic: 1479 Message: 1481

> A35WG who is currently active uses my homemade beam.

Holger -

My thanks to you for providing that antenna to Guenter. I heard him calling CQ on 20m PSK last night, and was able to work him with my FT-817 (five watts) and attic dipole.

73,
Steve
W3HF

1482. Re: Hex-Beam Upside Down?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-27 22:10:29 UTC
From: Bill Reid
Topic: 1474 Message: 1482

--- In hex-beam@yahoogroups.com, "Dan Fitch" <kb4l@b...> wrote:
> I live in a deed-restricted development . Sigh.
>
> Have any of you turned a hex-beam upside down, so that it looks
more or less
> like an umbrella? How well does it work?
>
> Picture this crazy idea...

Sounds great, Dan; go for it! - Gene AC7UL

1483. Re: [hex-beam] Digest Number 345

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-28 23:47:44 UTC
From: Stuart Bloom
Topic: 1483 Message: 1483

Hi,
Be careful. If the weight of your wires and the spreaders is too much (or if you get icing in winter, you might "droop" the speaders too much and break them, or you will probably have too much slack in the wires and they will droop. (I guess that depends on whether you use PVC, fiberglass, bamboo, etc). When the speaders are "up", gravity helps keep the wires taught.

Just a thought,
Stu

--- hex-beam@yahoogroups.com wrote:
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>
>
>

>
> There is 1 message in this issue.
>
> Topics in this digest:
>
> 1. Re: Hex-Beam Upside Down?
> From: "Bill Reid" <reidserv@...>
>
>
>

>

>
> Message: 1
> Date: Tue, 27 May 2003 22:10:29 -0000
> From: "Bill Reid" <reidserv@...>
> Subject: Re: Hex-Beam Upside Down?
>
> --- In hex-beam@yahoogroups.com, "Dan Fitch"
> <kb4l@b...> wrote:
> > I live in a deed-restricted development?. Sigh.
> >

> > Have any of you turned a hex-beam upside down, so
> that it looks
> more or less
> > like an umbrella? How well does it work?
> >
> > Picture this crazy idea...
>
> Sounds great, Dan; go for it! - Gene AC7UL
>
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http://calendar.yahoo.com

1484. Re: Hex-Beam Upside Down?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-29 03:35:00 UTC
From: w4wb
Topic: 1474 Message: 1484

Hi Dan,

Gravity kills! Not a good idea IMO. Do a few quick calculations and determine the added force at the hub on each arm. Gravity helps to balance the forces induced by the bending up of the arms by the several wires when mounted in the normal manner. One could extend the mast (in the inverted case) several feet and connect a line from the tip of each arm to the top of the extended mast as another means to balance the forces. Try to explain that "new" look to your neighors. ;-)

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Dan Fitch" <kb4l@b...> wrote:
> I live in a deed-restricted development . Sigh.
>
> Have any of you turned a hex-beam upside down, so that it looks more or less
> like an umbrella? How well does it work?
>
> Picture this crazy idea. I'm seriously considering the construction of a
> wooden gazebo in the back yard, hexagonal of course, and thought that I
> might disguise a hex-beam in the roof. The dimensions would be about right
> for a 17M-6M version. 20M would really be stretching it, unless it was
> inductively loaded. Some of the available umbrella coverings are pretty
> impervious to weather (I live in Florida) and transparent to HF. The
> spreaders could be supported/stabilized by wheels in a notched track around
> the top of the gazebo frame, and a rotor hidden in the floor, with a wood or
> PVC "mast" up the center. Am I desperate, crazy, or what?
>
> Do any of you have any (constructive) suggestions on this (besides moving or
> committing myself)?
>
> Oh, and since most outdoors structures are screened with Mylar around here,

> due to the critters, the screen door would be locked before operating the
> rig .
>
> 73 de Dan/KB4L
> Antenna-Challenged NASA guy.
>
>
> [Non-text portions of this message have been removed]

1485. Fw: hexbeam upside down

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-29 14:15:52 UTC
From: Ed Cuypers
Topic: 1485 Message: 1485

Because of the feeding system, one can't place the hexbeam upside down. Not with a steel tube going through the hub, as a support for the beam, in any case. The steel tube would be too close to the feeding point and would make the antenna useless. One can't place the antenna with the pvc tube on a steel tube either, because the pvc tube will break.
I think it could be done if you replace the pvc tubing with a fibreglass rod to replace the pvc tube and attach your feeding system to that rod. The wall of that rod should be tick enough to support the antenna or use solid rod.
Because the antenna is upside down now, your spreaders should be strong enough to provide enough tension to keep the wires stretched.
Don't disguise the antenna as a umbrella. Hi!Hi! It will take to much wind and raises suspicion in the neighbourhood. Who puts his umbrella at 30 feet?
ON6EC Ed

[Non-text portions of this message have been removed]

1486. RE: [hex-beam] Fw: hexbeam upside down Mast thru HexBeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-29 15:33:07 UTC
From: Peter D. Vouvounas
Topic: 1485 Message: 1486

Ed,

I have a 2"D 1/4" thick aluminum mast running through my Hex Beam with no problem in performance.

Mike had a very nice offset mount machined for me two years ago.

Pictures (33) available here:

http://photos.yahoo.com/wb3fsr

-----Original Message-----
From: Ed Cuypers [mailto:edcuypers@...]
Sent: May 29, 2003 10:16
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Fw: hexbeam upside down

Because of the feeding system, one can't place the hexbeam upside down. Not with a steel tube going through the hub, as a support for the beam, in any case. The steel tube would be too close to the feeding point and would make the antenna useless. One can't place the antenna with the pvc tube on a steel tube either, because the pvc tube will break.
I think it could be done if you replace the pvc tubing with a fibreglass rod to replace the pvc tube and attach your feeding system to that rod. The wall of that rod should be tick enough to support the antenna or use solid rod.
Because the antenna is upside down now, your spreaders should be strong enough to provide enough tension to keep the wires stretched.
Don't disguise the antenna as a umbrella. Hi!Hi! It will take to much wind and raises suspicion in the neighbourhood. Who puts his umbrella at 30 feet?
ON6EC Ed

[Non-text portions of this message have been removed]

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1487. Small error in HexbeamCalcV2.xls

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-30 15:34:11 UTC
From: Jindra Vavruska
Topic: 1487 Message: 1487

Hello,

I tried the Excel design tool found in Files section of this group. I am afraid 1 inch = 2.54 centimeters, not 2.56.

Example: for 28.1 MHz the Excel sheet says 5.63 meters for driven ele. It should be actually 5.59. With 5.63 you would get (theoretically) as low as 27.9 MHz.

But I assume it is necessary to experiment a little bit anyway and cutting wires might be a bit easier than pulling them longer ;)

73 Jindra OK1FOU

1488. Re: Fw: hexbeam upside down Mast thru HexBeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-05-31 00:12:02 UTC
From: w4wb
Topic: 1485 Message: 1488

Hi Peter,

I think Ed was talking about going through the mast, not along side of it. You are correct that one may mount the HB offset with the "new" mast running between the driven and reflector elements on the cold side (side the coax shield is connect). Others have done this with no problem as long as the antenna above doesn't electrically couple with the HB.

Nice installation and photos!

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Peter D. Vouvounas" <wb3fsr@c...> wrote:
> Ed,
>
> I have a 2"D 1/4" thick aluminum mast running through my Hex Beam with no
> problem in performance.
>
> Mike had a very nice offset mount machined for me two years ago.
>
> Pictures (33) available here:
>
> http://photos.yahoo.com/wb3fsr
>
>
>
> -----Original Message-----
> From: Ed Cuypers [mailto:edcuypers@p...]
> Sent: May 29, 2003 10:16
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] Fw: hexbeam upside down
>
>
> Because of the feeding system, one can't place the hexbeam upside down. Not
> with a steel tube going through the hub, as a support for the beam, in any
> case. The steel tube would be too close to the feeding point and would make
> the antenna useless. One can't place the antenna with the pvc tube on a
> steel tube either, because the pvc tube will break.

> I think it could be done if you replace the pvc tubing with a
fibreglass
> rod to replace the pvc tube and attach your feeding system to that
rod. The
> wall of that rod should be tick enough to support the antenna or
use solid
> rod.
> Because the antenna is upside down now, your spreaders should be
strong
> enough to provide enough tension to keep the wires stretched.
> Don't disguise the antenna as a umbrella. Hi!Hi! It will take to
much wind
> and raises suspicion in the neighbourhood. Who puts his umbrella at
30 feet?
> ON6EC Ed
>
> [Non-text portions of this message have been removed]
>
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1489. Materials

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-04 15:18:32 UTC
From: engvt
Topic: 1489 Message: 1489

Hello,
I am looking for the dimensions of the "real" hex beam hub plate. I primarily need the outer dimensions and the size of the U-bolts used. I am also seeking a source for fiberglass tubing similar to that used on the commercial product.

Thanks.
Ron N1WT

1490. Re: [hex-beam] Materials

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-04 21:51:37 UTC
From: W. Deloach
Topic: 1489 Message: 1490

Ron, I don't have measured drawings, but I have a follow ham who has not assembled his beam yet and will measure and advise!!
I don't know a supplier of fiberglass products like those used by Traffie!!

Bill K4QCD
----- Original Message -----
From: engvt
To: hex-beam@yahoogroups.com
Sent: Wednesday, June 04, 2003 11:18 AM
Subject: [hex-beam] Materials

Hello,
I am looking for the dimensions of the "real" hex beam
hub plate. I primarily need the outer dimensions and the
size of the U-bolts used. I am also seeking a source for
fiberglass tubing similar to that used on the commercial
product.

Thanks.
Ron N1WT

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[Non-text portions of this message have been removed]

1491. RE: [hex-beam] Materials

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-04 22:15:25 UTC
From: David Simmons
Topic: 1489 Message: 1491

You can try Max-Gain at http://www.mgs4u.com/fiberg.htm <http://www.mgs4u.com/fiberg.htm> for fiberglass.

One thing to note on the tubing is that it comes in 8' sections, and you'll pay a fortune for shipping at that size. You can have them make cuts for .50 cents each down to 4', which just fits the normal UPS limits.

I haven't ordered from them, but was playing with a design like:

3 qty 8' 3/4" tubes cut in half for 6 4' pieces
3 qty 8' 1/2" tubes cut in half for 6 4' pieces (fits inside 3/4" tube)
3 qty 8' 1/4" rods cut in half for 6 4' pieces (fits inside 1/2" tube)

Ask them to sleve the pieces before they make the cuts, so that will only be a few cuts. You'd then have 3/4" tubes tapering to 1/4" at the end. They would be about 11' long, assuming a 6" overlap where the joints are. (BTW, how long are the real HexBeam spreaders ?)

If anyone has opinions about if this sounds right for size and flex, please let me know.

73,

- Dave
KQ6RL

-----Original Message-----
From: engvt [mailto:engvt@...]
Sent: Wednesday, June 04, 2003 8:19 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Materials

Hello,
I am looking for the dimensions of the "real" hex beam
hub plate. I primarily need the outer dimensions and the
size of the U-bolts used. I am also seeking a source for
fiberglass tubing similar to that used on the commercial
product.

Thanks.
Ron N1WT

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[Non-text portions of this message have been removed]

1492. NH2PW - Hexbeam user

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-12 11:46:28 UTC
From: lz2be
Topic: 1492 Message: 1492

Hi friends,

I had yesterday at 20.30z 20m SSB QSO with Phil NH2PW. He told me that he is using HX5Bi and reports both ways were 59+ ! I had 15m QSO with him few days ago through JA pile-up.

73 de Bob LZ2BE

1493. 6M on Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-12 22:05:43 UTC
From: Jason Hissong
Topic: 1493 Message: 1493

Hi guys,

Loaded up the Hexbeam on 6M and talked to a guy in FL. Neato.

73!

Jason Hissong
N8XE

1494. Ham-Com 2003

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-14 11:31:19 UTC
From: w4wb
Topic: 1494 Message: 1494

If any of you are going to attend Ham-Com 2003 next week, please drop by the W4RT Electronics Booth 232 (next to the Yaesu booth) for an eyeball QSO. It would be nice to meet more Hex-Beam users.

73,
Barry - W4WB

1495. HXP and FD

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-14 20:54:17 UTC
From: richlim11
Topic: 1495 Message: 1495

Hi gang, I plan on running my hexbeam portable for field day this year. I remember reading somewhere here that putting the beam either higher or lower (can't remember which) would be more beneficial during field day. I think it had to do with the angle of radiation and how the lobes developed at different heights from what Mike Traffie recommended for his beam. Can anyone help me out?
Rich
KQ9L

1496. Re: HXP and FD

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-14 23:23:51 UTC
From: w4wb
Topic: 1495 Message: 1496

--- In hex-beam@yahoogroups.com, "richlim11" <richlim11@y...> wrote:
> Hi gang, I plan on running my hexbeam portable for field day this
year. I remember
> reading somewhere here that putting the beam either higher or lower
(can't
> remember which) would be more beneficial during field day. I think
it had to do with
> the angle of radiation and how the lobes developed at different
heights from what
> Mike Traffie recommended for his beam. Can anyone help me out?
> Rich
> KQ9L

I had the HX-5B at about 56' for 20 m last year at FD. I could tell
that the beam had broken into lobes and was costing me contacts
(nevertheless, our club finished 9th overall - K4BFT). I have
requested that the 20 m SSB station tower be set for 40' this year so
that the 20 m elements will be about 44' for no multiple lobing. It
is quite a sight to see the fine members of the Huntsville ARC set up
4 to 5 50' towers in about two hours. They have it down to a fine
art and are ready for those emergency situations requiring rapid
response. They are truly an impressive group (and they make sure the
food is outstanding as well)! I'm just one of the operators they
grab from our DX Club to man some of the stations. :-)

GL Rich es hope to hear you FB,
Barry - W4WB

1497. Re: [hex-beam] HXP and FD

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-15 18:23:52 UTC
From: wa2ntk
Topic: 1495 Message: 1497

Rich, Seem between 35 and 40 feet will work just fine. Ralph WA2NTK
rmko218@...

[Non-text portions of this message have been removed]

1498. RE: [hex-beam] Digest Number 353

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-16 14:33:05 UTC
From: Meier, Peter H.
Topic: 1498 Message: 1498

My tower is about 48 ft. so my Hex Beam sits at about 52 ft. Is this really a problem for the patterns (being above 40 ft.) ??

Pete WK8S

---

1. Re: HXP and FD
From: "wa2ntk" <wa2ntk@...>

Message: 1
Date: Sun, 15 Jun 2003 14:23:52 -0400
From: "wa2ntk" <wa2ntk@...>
Subject: Re: HXP and FD

Rich, Seem between 35 and 40 feet will work just fine. Ralph WA2NTK
rmko218@...

1499. Re: Digest Number 353

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-20 02:56:45 UTC
From: w4wb
Topic: 1498 Message: 1499

Hi Pete,

Traffie tunes them at about 43.5'. Take a look at the model and you will see that the elevation lobe splits. I have my HB (20 m elements) at about 38' and works fine (single lobe). When I had it at 56' for FD last year, I could easily detect the lobe spliting. Is it a real problem? Not really perhaps, but I suggest that you will find it to be better for most work to be at the 43' level. BTW, the model indicates that the third lobe (at 56') points up and a part of it even backwards a bit. Well, I made some NVIS contacts too in AL, MS, and TN (I'm located in north Alabama). ;-) Remember that there is energy transmitted in each lobe, and energy received in each ... QRN/M potential.

73,
Barry - W4WB

-- In hex-beam@yahoogroups.com, "Meier, Peter H." <peter.meier@u...> wrote:
> My tower is about 48 ft. so my Hex Beam sits at about 52 ft. Is this really
> a problem for the patterns (being above 40 ft.) ??
>
> Pete WK8S
>
>
>
> ----------

>
> 1. Re: HXP and FD
> From: "wa2ntk" <wa2ntk@e...>
>

>
> Message: 1
> Date: Sun, 15 Jun 2003 14:23:52 -0400
> From: "wa2ntk" <wa2ntk@e...>
> Subject: Re: HXP and FD
>
> Rich, Seem between 35 and 40 feet will work just fine. Ralph WA2NTK
> rmko218@e...

1500. Elevation Angles - Optimum Height

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-22 03:49:14 UTC
From: David Douglass
Topic: 1500 Message: 1500

Hi All,

I've just uploaded a Excel File to the files section which shows elevation angle information for the 5 Band Hex-Beam at different heights (between 5 and 20M), and for all 5 bands.

There is a section in the ARRL Antenna handbook that details the optimum radiation angle from various areas in the US, to the rest of the World. Therefore in theory you can set your tower height to the optimum for a particular part of the World you prefer to work.

Sounds easy Eh?? Well if you prefer to work one location, on one band, only using 1 path (long or short) it is. However, if you want optimum height, for all bands, on all paths, to all locations you want to invest in an automatic telescopic tower!

Regards

David, VK2DPD
vk2dpd@...

1501. More Model Data

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-22 13:06:58 UTC
From: David Douglass
Topic: 1501 Message: 1501

Apologies for posting more data!! You can tell I was bored this afternoon and was playing around with my antenna modelling software!!

I just ran a model of a 5 band Hex, at 10 metres high, for each band and come up with the following...

Model Data - 5 Band Hex at 10 metres
Freq SWR Gain (dBi) FB (dB) Elev Angle (?)

28.05 2.21 8.7 6.31 14.3
24.9 1.54 8.99 9.23 15.8
21.05 2.13 9.54 10.97 18.2
18.08 2.28 10.05 11.96 20.5
14.05 3 9.3 9.76 24.5

Whilst I think you can sometimes take modelling data with a pinch of salt, I always had the feeling that the best band on my Hex was 17 metres, and that performance on 10 metres was poor when compared with other bands. As the above data shows gain and F/B are best at 17 metres and worst at 10 metres. Coincidence or what???

Also tried to model the antenna for the 30 metre band, and got a bi-directional pattern similar to a dipole. This was interesting as many found the 5 Band Hex had directivity on this band?? I, on the other hand always thought it was omni-directional.

Again apologies for the bandwidth, but I've got to find something to do as it's the close season for football!!

Regards

David, VK2DPD

1502. Installing a 40' push-up mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-21 17:22:05 UTC
From: k1mzg
Topic: 1502 Message: 1502

Greetings all,

I've decided install the HX-5Bi hex-beam on a 40' push up mast. Any suggestions or comments are appreciated.

For one thing, what are the recommended guy wires? I previously have put up a 30' mast and used galvanized wire for guys and merely twisted the ends where it connects to the mast and ground anchors. Are there better kinds of wire for this? I was thinking of getting wire rope and using clamps.

The second issue is putting up the mast itself. Previously, I put the 30 footer, telescoped down to 10', in a small hole with rocks in it. I then guyed it and, standing on an 8' step ladder pulled up one section at a time. I did the whole thing myself, but the mast wasn't supporting anything. I figure I could do the same thing with the 40' mast with 3 friends helping securing the guy lines.

So the plan is:
1. Assemble the hex-beam
2. Install the rotator (Channel Master) on the mast and put the mast in it's support hole. Secure first set of guys.
3. Install the hexbeam on the mast/rotator.
4. Push up the top section of the mast to 20 feet while the 3 friends are holding the guys. Put in the locking pin, securing that section.
5. Do the same thing (#4) for the 2 middle sections. It's only when the mast is all the way up that the top 3 sets of guys can then be secured.

Any thoughts or suggestions on this plan? I think I prefer doing it this way that to tilting up the whole 40' feet of mast from the ground. Than seems like it would be ungainly andmight fall.

Thanks for any help. I'm ordering the hex-beam today!

73's

Michael, kd5wby

1503. Re: [hex-beam] Installing a 40' push-up mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-23 22:35:18 UTC
From: Ed Fox
Topic: 1502 Message: 1503

Mike,
I would suggest using 3/16" UV resistant dacron rope rather than wire.
My hexbeam is on a 30' mast and I've had no problems using the dacron rope
over the past two years. It's held up well. Ed, N0OQ

>From: "k1mzg" <k1mzg@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] Installing a 40' push-up mast
>Date: Sat, 21 Jun 2003 17:22:05 -0000
>
>Greetings all,
>
>I've decided install the HX-5Bi hex-beam on a 40' push up mast. Any
>suggestions or comments are appreciated.
>
>For one thing, what are the recommended guy wires? I previously have
>put up a 30' mast and used galvanized wire for guys and merely
>twisted the ends where it connects to the mast and ground anchors. Are
>there better kinds of wire for this? I was thinking of getting wire
>rope and using clamps.
>
>The second issue is putting up the mast itself. Previously, I put the
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>I then guyed it and, standing on an 8' step ladder pulled up one
>section at a time. I did the whole thing myself, but the mast wasn't
>supporting anything. I figure I could do the same thing with the 40'
>mast with 3 friends helping securing the guy lines.
>
>So the plan is:
>1. Assemble the hex-beam
>2. Install the rotator (Channel Master) on the mast and put the mast
> in it's support hole. Secure first set of guys.
>3. Install the hexbeam on the mast/rotator.
>4. Push up the top section of the mast to 20 feet while the 3 friends
> are holding the guys. Put in the locking pin, securing that
> section.
>5. Do the same thing (#4) for the 2 middle sections. It's only when
> the mast is all the way up that the top 3 sets of guys can then be
> secured.
>
>Any thoughts or suggestions on this plan? I think I prefer doing it
>this way that to tilting up the whole 40' feet of mast from the
>ground. Than seems like it would be ungainly andmight fall.
>

>Thanks for any help. I'm ordering the hex-beam today!
>
>73's
>
>Michael, kd5wby
>
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1504. Re: Installing a 40' push-up mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-24 00:40:42 UTC
From: w4wb
Topic: 1502 Message: 1504

--- In hex-beam@yahoogroups.com, "Ed Fox" <elfox@h...> wrote:
> Mike,
> I would suggest using 3/16" UV resistant dacron rope rather than
wire.
> My hexbeam is on a 30' mast and I've had no problems using the
dacron rope
> over the past two years. It's held up well. Ed, N0OQ
>
HI Mike,

Ed is correct. May I suggest SYNTHETIC TEXTILES rope from AES. See
http://search.cartserver.com/search/search.cgi?cartid=a-
6994&category=newprices&maxhits=200&keywords=synthetic+textile

Works great. BTW, never use wire guys with the Hex-Beam.

73,
Barry - W4WB

1505. Re: [hex-beam] Installing a 40' push-up mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-24 13:56:15 UTC
From: Harry Tankin
Topic: 1502 Message: 1505

My HX5-Bi is installed on a 30 foot push up mast, guyed at two levels with 5/16 double braid dacron rope. However, I mounted my rotator (G1000-DXA) 2 feet above ground. It turns the mast and antenna with no problem. Rotator is mounted on 5 feet of steel pipe (3 feet in ground) and about 200lbs of Quikcrete. I can raise and lower the mast/antenna down to 10 feet with no problem. I would be caustions about having the rotator mounted at top of mast as it will become very unweildy. Actually, the most difficult part of the project was mounting the antenna on the lowered mast then getting it upright on set in the rotator. This step is easily a two (possibly three) person job. About every 2 weeks I check the guys to make sure all is okay, and about twice a year lower the antenna to do check over. Been up for about 27 months. Hope this helps. Harr WE1X ----- Original Message ----- From: k1mzg Date: Saturday, June 21, 2003 1:22 pm Subject: [hex-beam] Installing a 40' push-up mast > > > > > Greetings all, > > > > I've decided install the HX-5Bi hex-beam on a 40' push up mast. Any > > suggestions or comments are appreciated. > > > > For one thing, what are the recommended guy wires? I previously have > > put up a 30' mast and used galvanized wire for guys and merely > > twisted the ends where it connects to the mast and ground anchors. Are > > there better kinds of wire for this? I was thinking of getting wire > > rope and using clamps. > > > > The second issue is putting up the mast itself. Previously, I put the > > 30 footer, telescoped down to 10', in a small hole with rocks in it. > > I then guyed it and, standing on an 8' step ladder pulled up one > > section at a time. I did the whole thing myself, but the mast > wasn't > > supporting anything. I figure I could do the same thing with the > 40' > > mast with 3 friends helping securing the guy lines. > > > > So the plan is: > > 1. Assemble the hex-beam > > 2. Install the rotator (Channel Master) on the mast and put the mast > > in it's support hole. Secure first set of guys. > > 3. Install the hexbeam on the mast/rotator. > > 4. Push up the top section of the mast to 20 feet while the 3 friends > > are holding the guys. Put in the locking pin, securing that > > section. > > 5. Do the same thing (#4) for the 2 middle sections. It's only when > > the mast is all the way up that the top 3 sets of guys can then be > > secured. > > > > Any thoughts or suggestions on this plan? I think I prefer doing > it > > this way that to tilting up the whole 40' feet of mast from the > > ground. Than seems like it would be ungainly andmight fall. > > > > Thanks for any help. I'm ordering the hex-beam today! > > > > 73's > > > > Michael, kd5wby >
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1506. Re: [hex-beam] Installing a 40' push-up mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-24 17:46:24 UTC
From: sysop@bfdin.com
Topic: 1502 Message: 1506

Harry, Interesting. I've thought about this approach. Assuming that the entire mast rotates with this setup, what does the mast turn in that is attached to the guy wires? Thanks! - Bill N3LLR HE>My HX5-Bi is installed on a 30 foot push up mast, guyed at two levels HE>with 5/16 double braid dacron rope. However, I mounted my rotator HE>(G1000-DXA) 2 feet above ground. It turns the mast and antenna with no HE>problem. Rotator is mounted on 5 feet of steel pipe (3 feet in ground) HE>and about 200lbs of Quikcrete. I can raise and lower the mast/antenna HE>down to 10 feet with no problem. HE>I would be caustions about having the rotator mounted at top of mast as HE>it will become very unweildy. Actually, the most difficult part of the HE>project was mounting the antenna on the lowered mast then getting it HE>upright on set in the rotator. This step is easily a two (possibly HE>three) person job. HE>About every 2 weeks I check the guys to make sure all is okay, and HE>about twice a year lower the antenna to do check over. HE>Been up for about 27 months. HE>Hope this helps. HE>Harr WE1X HE>----- Original Message ----- HE>From: k1mzg HE>Date: Saturday, June 21, 2003 1:22 pm HE>Subject: [hex-beam] Installing a 40' push-up mast HE>>
HE>> HE>> HE>> HE>> Greetings all, HE>> HE>> HE>> HE>> I've decided install the HX-5Bi hex-beam on a 40' push up mast. Any HE>> HE>> suggestions or comments are appreciated. HE>> HE>> HE>> HE>> For one thing, what are the recommended guy wires? I previously have HE>> HE>> put up a 30' mast and used galvanized wire for guys and merely HE>> HE>> twisted the ends where it connects to the mast and ground anchors. Are HE>> HE>> there better kinds of wire for this? I was thinking of getting wire HE>> HE>> rope and using clamps. HE>> HE>> HE>> HE>> The second issue is putting up the mast itself. Previously, I put the HE>> HE>> 30 footer, telescoped down to 10', in a small hole with rocks in it. HE>> HE>> I then guyed it and, standing on an 8' step ladder pulled up one HE>> HE>> section at a time. I did the whole thing myself, but the mast HE>> wasn't HE>> HE>> supporting anything. I figure I could do the same thing with the HE>> 40' HE>> HE>> mast with 3 friends helping securing the guy lines. HE>> HE>> HE>> HE>> So the plan is: HE>> HE>> 1. Assemble the hex-beam HE>> HE>> 2. Install the rotator (Channel Master) on the mast and put the mast HE>> HE>> in it's support hole. Secure first set of guys. HE>> HE>> 3. Install the hexbeam on the mast/rotator. HE>> HE>> 4. Push up the top section of the mast to 20 feet while the 3 friends HE>> HE>> are holding the guys. Put in the locking pin, securing that HE>> HE>> section. HE>> HE>> 5. Do the same thing (#4) for the 2 middle sections. It's only when HE>> HE>> the mast is all the way up that the top 3 sets of guys can then be HE>> HE>> secured. HE>> HE>> HE>> HE>> Any thoughts or suggestions on this plan? I think I prefer doing HE>> it HE>> HE>> this way that to tilting up the whole 40' feet of mast from the HE>> HE>> ground. Than seems like it would be ungainly andmight fall. HE>> HE>> HE>> HE>> Thanks for any help. I'm ordering the hex-beam today! HE>> HE>> HE>> HE>> 73's HE>> HE>> HE>> HE>> Michael, kd5wby HE>> HE>> HE>> HE>> HE>> HE>> HE>> HE>> HE>> HE>> HE>> HE>> HE>> HE>> HE>> HE>> HE>> HE>> HE>> HE>>
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1507. Re: [hex-beam] Installing a 40' push-up mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-24 18:07:04 UTC
From: Harry Tankin
Topic: 1502 Message: 1507

Bill, I use the Traffie heavy duty mast (which is anodized bronze so it blends in with the trees). Comes with pair of good quality guy rings that allow the mast to rotate easily. The guy ropes are tied to ... get this ... dog run screws. These are very large cork screw stakes that you screw in the ground that you tied you dog to. I installed three of these and tied a pair of guys to each. If the earth is solid they hold very well. Not sure where you're located. I'm in Yardley, PA near Philadelphia / Trenton..so if local you're more than welcome to come by and take a look. Harry WE1X ----- Original Message ----- From: sysop@... Date: Tuesday, June 24, 2003 1:46 pm Subject: Re: [hex-beam] Installing a 40' push-up mast >
> > > > Harry, > > > > Interesting. I've thought about this approach. > > > > Assuming that the entire mast rotates with this setup, what does the > > mast turn in that is attached to the guy wires? > > > > Thanks! > > > > - Bill N3LLR > > > > HE>My HX5-Bi is installed on a 30 foot push up mast, guyed at > two levels > > HE>with 5/16 double braid dacron rope. However, I mounted my > rotator > HE>(G1000-DXA) 2 feet above ground. It turns the mast and > antenna with no > > HE>problem. Rotator is mounted on 5 feet of steel pipe (3 feet > in ground) > > HE>and about 200lbs of Quikcrete. I can raise and lower the > mast/antenna > HE>down to 10 feet with no problem. > > > > HE>I would be caustions about having the rotator mounted at top > of mast as > > HE>it will become very unweildy. Actually, the most difficult > part of the > > HE>project was mounting the antenna on the lowered mast then > getting it > > HE>upright on set in the rotator. This step is easily a two > (possibly > HE>three) person job. > > > > HE>About every 2 weeks I check the guys to make sure all is > okay, and > > HE>about twice a year lower the antenna to do check over. > > > > HE>Been up for about 27 months. > > > > HE>Hope this helps. > > > > HE>Harr WE1X > > > > > > > > HE>----- Original Message ----- > > HE>From: k1mzg > > HE>Date: Saturday, June 21, 2003 1:22 pm > > HE>Subject: [hex-beam] Installing a 40' push-up mast > > > > HE>>
> > HE>> > > HE>> > > HE>> > > HE>> Greetings all, > > HE>> > > HE>> > > HE>> > > HE>> I've decided install the HX-5Bi hex-beam on a 40' push > up mast. Any > > HE>> > > HE>> suggestions or comments are appreciated. > > HE>> > > HE>> > > HE>> > > HE>> For one thing, what are the recommended guy wires? I > previously have > > HE>> > > HE>> put up a 30' mast and used galvanized wire for guys and > merely > HE>> > > HE>> twisted the ends where it connects to the mast and > ground anchors. Are > > HE>> > > HE>> there better kinds of wire for this? I was thinking of > getting wire > > HE>> > > HE>> rope and using clamps. > > HE>> > > HE>> > > HE>> > > HE>> The second issue is putting up the mast itself. > Previously, I put the > > HE>> > > HE>> 30 footer, telescoped down to 10', in a small hole with > rocks in it. > > HE>> > > HE>> I then guyed it and, standing on an 8' step ladder > pulled up one > > HE>> > > HE>> section at a time. I did the whole thing myself, but > the mast > > HE>> wasn't > > HE>> > > HE>> supporting anything. I figure I could do the same thing > with the > > HE>> 40' > > HE>> > > HE>> mast with 3 friends helping securing the guy lines. > > HE>> > > HE>> > > HE>> > > HE>> So the plan is: > > HE>> > > HE>> 1. Assemble the hex-beam > > HE>> > > HE>> 2. Install the rotator (Channel Master) on the mast and > put the mast > > HE>> > > HE>> in it's support hole. Secure first set of guys. > > HE>> > > HE>> 3. Install the hexbeam on the mast/rotator. > > HE>> > > HE>> 4. Push up the top section of the mast to 20 feet while > the 3 friends > > HE>> > > HE>> are holding the guys. Put in the locking pin, > securing that > > HE>> > > HE>> section. > > HE>> > > HE>> 5. Do the same thing (#4) for the 2 middle sections. > It's only when > > HE>> > > HE>> the

mast is all the way up that the top 3 sets of > guys can then be > > HE>> > > HE>> secured. > > HE>> > > HE>> > > HE>> > > HE>> Any thoughts or suggestions on this plan? I think I > prefer doing > > HE>> it > > HE>> > > HE>> this way that to tilting up the whole 40' feet of mast > from the > > HE>> > > HE>> ground. Than seems like it would be ungainly andmight fall. > > HE>> > > HE>> > > HE>> > > HE>> Thanks for any help. I'm ordering the hex-beam today! > > HE>> > > HE>> > > HE>> > > HE>> 73's > > HE>> > > HE>> > > HE>> > > HE>> Michael, kd5wby > > HE>>
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1508. 40M and 5 Band Hex Beams "Nested" ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-24 16:54:31 UTC
From: blkwynd2000
Topic: 1508 Message: 1508

Hi Guys,

I am building a new QTH out in the country where I will finally be free of CC&R's and neighbors who do not see Ham antennas as a thing of beauty...I sure you know the story.

Anyway, among the 2 or 3 antennas I am considering would be a 40M Hex mounted below a 5 band Hex on the same mast. I will be using a 72' motorized US Towers crank-up, so I can easily position the 5 bander at about 42 feet and then raise the tower up to full height for use on 40M...that's the thinking anyway...

I would appreciate any thoughts on what seperation I should consider achieving between the two antenna sysyems.

The Hex Beam is like all antennas a commpromise, but the 5 Band / 40M combo looks like a great solution given that I will be spending a lot of time on 40M given the current sun spot realities.

Thanks in advance for any feedback, especially experiences with the 40M Hex.

73, de harry, W6DXO

1509. Re: Installing a 40' push-up mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-24 17:32:00 UTC
From: k0co_5
Topic: 1502 Message: 1509

Harry, how do you affix the guys - what kind of rotating/slip/bearing system do you use to work with the turning mast, please? k0co --- In hex-beam@yahoogroups.com, Harry Tankin wrote: > My HX5-Bi is installed on a 30 foot push up mast, guyed at two levels > with 5/16 double braid dacron rope. However, I mounted my rotator > (G1000-DXA) 2 feet above ground. It turns the mast and antenna with no > problem. Rotator is mounted on 5 feet of steel pipe (3 feet in ground) > and about 200lbs of Quikcrete. I can raise and lower the mast/antenna > down to 10 feet with no problem. > > I would be caustions about having the rotator mounted at top of mast as > it will become very unweildy. Actually, the most difficult part of the > project was mounting the antenna on the lowered mast then getting it > upright on set in the rotator. This step is easily a two (possibly > three) person job. > > About every 2 weeks I check the guys to make sure all is okay, and > about twice a year lower the antenna to do check over. > > Been up for about 27 months. > > Hope this helps. > > Harr WE1X > > > > ----- Original Message ----- > From: k1mzg > Date: Saturday, June 21, 2003 1:22 pm > Subject: [hex-beam] Installing a 40' push-up mast > > >
> > > > > > > > Greetings all, > > > > > > > > I've decided install the HX-5Bi hex-beam on a 40' push up mast. Any > > > > suggestions or comments are appreciated. > > > > > > > > For one thing, what are the recommended guy wires? I previously have > > > > put up a 30' mast and used galvanized wire for guys and merely > > > > twisted the ends where it connects to the mast and ground anchors. Are > > > > there better kinds of wire for this? I was thinking of getting wire > > > > rope and using clamps. > > > > > > > > The second issue is putting up the mast itself. Previously, I put the > > > > 30 footer, telescoped down to 10', in a small hole with rocks in it. > > > > I then guyed it and, standing on an 8' step ladder pulled up one > > > > section at a time. I did the whole thing myself, but the mast > > wasn't > > > > supporting anything. I figure I could do the same thing with the > > 40' > > > > mast with 3 friends helping securing the guy lines. > > > > > > > > So the plan is: > > > > 1. Assemble the hex-beam > > > > 2. Install the rotator (Channel Master) on the mast and put the mast > > > > in it's support hole. Secure first set of guys. > > > > 3. Install the hexbeam on the mast/rotator. > > > > 4. Push up the top section of the mast to 20 feet while the 3 friends > > > > are holding the guys. Put in the locking pin, securing that > > > > section. > > > > 5. Do the same thing (#4) for the 2 middle sections. It's only when > > > > the mast is all the way up that the top 3 sets of guys can then be > > > > secured. > > > > > > > > Any thoughts or suggestions on this plan? I think I prefer doing > > it > > > > this way that to tilting up the whole 40' feet of mast from the > > > > ground. Than seems like it would be ungainly andmight fall. > > > > > > > > Thanks for any help. I'm ordering the hex-beam today! > > > > > > > > 73's > > > > > > > > Michael, kd5wby >
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1510. Re: 40M and 5 Band Hex Beams "Nested" ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-25 01:44:18 UTC
From: w4wb
Topic: 1508 Message: 1510

Hi Harry,

I would ask Mike Traffie about this. He has had experience stacking the 40 m HB with other antennas.

73,
Barry - W4WB
(Rusting in Portland, OR for a couple of days, but not QRV thanks to the TSA.)

--- In hex-beam@yahoogroups.com, "blkwynd2000" <harry@g...> wrote:
> Hi Guys,
>
> I am building a new QTH out in the country where I will finally be
> free of CC&R's and neighbors who do not see Ham antennas as a
thing
> of beauty...I sure you know the story.
>
> Anyway, among the 2 or 3 antennas I am considering would be a 40M
> Hex mounted below a 5 band Hex on the same mast. I will be using
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> 72' motorized US Towers crank-up, so I can easily position the 5
> bander at about 42 feet and then raise the tower up to full height
> for use on 40M...that's the thinking anyway...
>
> I would appreciate any thoughts on what seperation I should
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> achieving between the two antenna sysyems.
>
> The Hex Beam is like all antennas a commpromise, but the 5 Band /
> 40M combo looks like a great solution given that I will be
spending
> a lot of time on 40M given the current sun spot realities.
>
> Thanks in advance for any feedback, especially experiences with
the
> 40M Hex.
>
> 73, de harry, W6DXO

1511. Re: [hex-beam] 40M and 5 Band Hex Beams "Nested" ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-25 10:42:10 UTC
From: IslPilot@aol.com
Topic: 1508 Message: 1511

I have been considering the same installation. Adding a 40M to my 5 bander. In conversations with Mike he has indicated that the 40M should be placed on top of my 65 foot tower and then the 5 bander lower on a side arm for best results.

Paul Baron
KB8VWV
Charlevoix, MI

[Non-text portions of this message have been removed]

1512. PUSH UP MAST

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-25 14:20:30 UTC
From: Andrea & Chuck Bridges
Topic: 1512 Message: 1512

My set up is very similar to Harry's. I live in the San Francisco Bay area, unfortunately in the "brown grass" area and not by the ocean. The wind here blows strongly most of the time -- I check the guys frequently. I have had not problem, althought some evenings I have expected the whole thing to come tumbling down in the windy blasts. I use earth screws (pretty similar to the dog run screws) to anchor the guy ropes. I found them on the Web, but I have seen similar versions in the garden section of our local hardware store.

The mast comes with two slip rings that slide down over the top of the mast and rest on the tops to two sections. The slip rings have holes to allow for the attachment of the guy ropes.

My wife and I put the mast/antenna combination up on a still day. Frankly, I wouldn't try it again. You need a couple of helpers to steady the mast as you raise it.

73,

Chuck AK6DV

1513. considering hex beam purchase

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-25 22:16:18 UTC
From: kb3cdf
Topic: 1513 Message: 1513

Dear Hex Beam Group:

I am truly perplexed ... maybe a little skeptical. Why does this antenna appear to have such a following? Why does this antenna defy the Elmer Golden Rule, "Cheap But Effective"?

I am seriously considering an alternative to my present vertical installation (HB-5V ...$50 second hand). I am not trying to roust up a huge amount of attention because I am lonely. I am truly curious about this antenna.

Thanks for comments in advance.

1. Why not a 2 element 5-band quad?

2. Why not a screwdriver antenna mounted portable?

3. Why not a 6 element log periodic?

4. Why not a C3SS?

5. Why not build a homebrew moxon?

6. Has anyone mounted this on the military surplus aluminium mast system?

TKS ES 73, John de N3QT

1514. Re:considering hex beam purchase

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-26 09:59:01 UTC
From: David Douglass
Topic: 1513 Message: 1514

Hi John,

1. Why not a 2 element 5-band quad? - Smaller 'foot-print', much better windloading, easier to tune (maybe), but if you have the room - go the quad.

2. Why not a screwdriver antenna mounted portable? - Poor performance.

3. Why not a 6 element log periodic? - Smaller 'foot-print', much better windloading.

4. Why not a C3SS? - Why not?

5. Why not build a homebrew moxon? Why not build a Hex? The Hex is a lot more mechanically robust and smaller, but probabaly not quite as good performance-wise.

6. Has anyone mounted this on the military surplus aluminium mast system? - Sorry Can't help you there?

IMHO Anyway..

Best Regards

David, VK2DPD

1515. Re: Considering hex beam purchase...

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-26 11:09:45 UTC
From: Floyd Sense
Topic: 1515 Message: 1515

John - here are my comments on your hex beam questions. I've had my 5 band HexBeam in the air for over three years now without problem. I chose the antenna for my installation because of its special physical characteristics (small size, light weight, structural rigidity) and I don't attribute its performance to any magical qualities. Under different circumstances, I'd have likely chosen a different antenna - maybe a TH-11DXX. There are definitely cases where the narrow beam width and high f/b of a multi-element yagi are distinct advantages.

> Date: Wed, 25 Jun 2003 22:16:18 -0000
> From: "kb3cdf" <n3qt@...>
> Subject: considering hex beam purchase
>
> Dear Hex Beam Group:
>
> I am truly perplexed ... maybe a little skeptical. Why does this
> antenna appear to have such a following? Why does this antenna defy
> the Elmer Golden Rule, "Cheap But Effective"?
>
> I am seriously considering an alternative to my present vertical
> installation (HB-5V ...$50 second hand). I am not trying to roust up a
> huge amount of attention because I am lonely. I am truly curious
> about this antenna.
>
> Thanks for comments in advance.
>
> 1. Why not a 2 element 5-band quad?
>

A good alternative, but (and I've had three quads):

a. A quad is far more difficult to get into the air
b. The quad is an inherently unstable structure. Movement of the spreaders in the wind will eventually break the wires or their connection points.
c. The quad takes up more space
d. The quad is more visible - spreaders are larger
e. Higher mass of the quad makes use of a light duty rotor a questionable decision

> 2. Why not a screwdriver antenna mounted portable?

Is that a serious question? The hex beam has gain and directivity without the inefficiency of a shortened mobile antenna. And - no tuning is required!

> 3. Why not a 6 element log periodic?

Much higher weight, larger rotor required, heavier duty supporting structure required, much larger turning radius, little if any advantage in gain and f/b ratio.

> 4. Why not a C3SS?

Not in the same league. The C3SS, according to the Force 12 website, has little gain on 17 and 12, and a very small f/b ratio on those bands. Have you looked at the advertised SWR for 12 and 17? On 12 it's 4:1 and on 17 it's 2.8:1. Will the C3SS take 1500 watts? Not clear on that from the website. If you plan to use an amplifier, you'll undoubtably need a tuner as well with SWRs that high. Even on 15 and 10 meters it has a 2:1 SWR.

> 5. Why not build a homebrew moxon?

Why not? When you resolve the complexities of a five band model on one structure it will be interesting.

> 6. Has anyone mounted this on the military surplus aluminium mast
> system?

I've seen those at Dayton every year. Never saw anyone actually use one, but lots of guys buy them.

> TKS ES 73, John de N3QT
>

1516. Re: [hex-beam] considering hex beam purchase

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-27 00:26:51 UTC
From: Jason Hissong
Topic: 1513 Message: 1516

Hi John,

My responses below:

> 1. Why not a 2 element 5-band quad?
>

That is a fine choice. A two element, 5 band quad from Lightning Bolt antennas is 289.00. If I did it all over again, I probably would have went this route because of cost/performance ratio. Don't get me wrong, the Hexbeam is a great antenna and I love it. However, I can do quite a bit with $600.00. Only drawback is I think quads have a tendancy to not stand up to the elements as well. YMMV.

> 2. Why not a screwdriver antenna mounted portable?
>

Sure... and wonder why you cannot work that station in China :)
Actually, comparing a Hexbeam to a vertical like that is like comparing a pinto to a corvette (any beam to a vertical/dipole). Are you looking for gain/directivity? Then don't go with a vertical.

> 3. Why not a 6 element log periodic?
>

These things are big and heavy. If you have the tower, then go for it.

> 4. Why not a C3SS?
>

3 bands. Basically a dipole on the WARC bands. On the Hexbeam, you get gain on all four bands (like the quad mentioned above).

> 5. Why not build a homebrew moxon?

If you have the desire, then go for it. Save you some money as well. You could also make your own Hexbeam. But from what it looks like, you may need to do some experimentation on getting it right.

>
> 6. Has anyone mounted this on the military surplus aluminium mast
> system?

Some guys on the list has used the push up mast from Traffie. They report good results. If you have the guy space, go for it! The Hexbeam is so light that the mast would do fine.

73 and let us know your decision! We would love to hear from you no matter what you choose.

Jason Hissong
N8XE
http://www.qsl.net/n8xe

1517. Re: [hex-beam] considering hex beam purchase

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-27 00:29:39 UTC
From: Jason Hissong
Topic: 1513 Message: 1517

One more thing...

Mike Traffie has a 30 day no risk offer:

http://www.hexbeam.com/offer.shtml

So far, only one ham returned their hexbeam because of XYL or neighbor restrictions...

Jason
Sound samples at http://www.qsl.net/n8xe/radio/hexbeam.html

kb3cdf wrote:
> Dear Hex Beam Group:
>
> I am truly perplexed ... maybe a little skeptical. Why does this
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> 3. Why not a 6 element log periodic?
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>
> 5. Why not build a homebrew moxon?
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> TKS ES 73, John de N3QT
>
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1518. Re: [hex-beam] considering hex beam purchase

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-27 00:38:05 UTC
From: IslPilot@aol.com
Topic: 1513 Message: 1518

John:

I agree with Jason. I think a good quad will do the job just as well but can it stand up to the weather elements? The difference in the antenna cost is made up for by the savings in the rotor and tower requirements. This has been completely no hassle for almost a year and the signals are great especially in comparison to a wire or typical vertical.

Paul
KB8VWV

[Non-text portions of this message have been removed]

1519. Spider beam....Hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-26 14:09:51 UTC
From: Jim Isbell
Topic: 1519 Message: 1519

I joined this list after seeing a "Spider Beam" to learn more. First question,
What is a Hex Beam? Is it a Spider Beam? Is there a difference????

Confused.

1520. Re: Spider beam....Hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-06-30 12:04:45 UTC
From: w4wb
Topic: 1519 Message: 1520

A Hex-Beam isn't a Spider Beam. Both are wire beams and are folded, but differently. The HB uses 6 support poles while the SB uses 4. Both also use the center post to attach their respective wire elements.

The Hex-Beam has two elements folded as reversed Ws while the Spider Beam uses 3 elements on 15 and 20 m, and 4 elements on 10 m. The Spider Beam elements are folded more as a V in a 3-D space. The Hex-Beam is very compact (< 20' turning radius for the 10-20 m version) while the Spider Beam has almost a 30' turning radius.

The HB covers all five bands in the 10-20 m spectrum while the SB covers only 10, 15, and 20 m. Weight is similar, but basically due to the lesser wire used on the SB (has two fewer bands). Wind loading torque is higher on the SB than the HB simply due to the symmetry of the HB.

The HB is very very proven in the field and has many hundreds of users worldwide. The SB reportedly works well also, but has a much smaller user base and significantly less history.

There is another Yahoo Group for futher SB discussion.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, Jim Isbell <millenniumfalcon@c...>
wrote:
> I joined this list after seeing a "Spider Beam" to learn more.
First
> question,
> What is a Hex Beam? Is it a Spider Beam? Is there a difference????
>
> Confused.

1521. The adventure begins

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-01 23:26:05 UTC
From: axelrodw
Topic: 1521 Message: 1521

After reading this reflector for a year and effecting a change in my home owners association rules, I finally ordered my HX5Bi Hex Beam this week. So hopefully, there will be one more on the air in the near future.

I've read all the posts on the yahoo site and the reviews on E-Ham.net. Looked at a fair number of installation pictures by now. Really good starting information.

With that as background, I'd like to solicit any suggestions, ideas, help, etc. before I start installation.

I will be installing the HX5Bi on Mike Traffie's ~30ft HDX mast. I still have to deal with antenna restrictions so the antenna has to be behind my house and can't stick up over the roof (be visible from the street). It's gotta be as stealthy as possible.

Question 1. I've seen a number of posts about painting the Hex Beam to enhance stealthness. So say paint it flat black. Others say gray or brown. From behind my house the antenna will be contrasted against a black pitched roof. From one side it has the sky for a background; from the other some trees. What do you all recommend as the best compromise stealth color to use?

Question 2. I plan to use Mike Traffie's HDX mast and rotate the beam with a Yeasu G-450A rotator. I understand that this rotator is probably overkill, but I'm more comfortable with over-engineering than the opposite. Based on Mike's recommendation, I plan to ground mount the rotator. That gives me some personal problems with the need to use guy ropes. So, does anyone have any lessons learned worth sharing regarding this type installation? Any alternatives?

Question 3. Any other thoughts, hints, tricks, traps, etc. not covered on the web site?

Thank you all and 73... Bill K3WA

1522. Re: [hex-beam] The adventure begins

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-01 23:59:25 UTC
From: Herbert Meiselman
Topic: 1521 Message: 1522

Bill:

Just a fast reply to one part of your message....

I use the G-450A and really enjoy being able to know where the antenna is pointed. Given that you spent some $$ on the antenna, why not a nice rotator?

73,

Herb K6HJM

PS: I painted my HX5Bi flat primer grey...spray can stuff...but maybe another color for you?

At 11:26 PM 7/1/03 +0000, you wrote:
>After reading this reflector for a year and effecting a change in my
>home owners association rules, I finally ordered my HX5Bi Hex Beam
>this week. So hopefully, there will be one more on the air in the
>near future.
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>
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>
>Thank you all and 73... Bill K3WA
>
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Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

[Non-text portions of this message have been removed]

1523. Re: [hex-beam] The adventure begins

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-02 00:09:27 UTC
From: Harry Tankin
Topic: 1521 Message: 1523

Bill, My HX5-Bi has been installed using Mike's HDX mast for over two years. Mast is guyed using double braid dacron rope. Suggest a few days after installation you check the guys for stretch / slack and adjust. Do this every few days. However, be careful NOT to tighten the guys too much as doing so will bow the mast. Have enough tension to ensure the mast/antenna does not wobble in wind. Regarding the rotator. My rotator is ground mounted on 5 feet of heavy steel pipe about 3 feet in the ground. I used about 5 or 6 bags of Quikrete for the base. Initially I used the Yaesu G-450A rotator. Theoretically this should be adequate. However, I noticed a couple of things. First, the total weight of the mast and antenna is about 40 lbs. That is a considerable amount of weight directly on the rotator. While the rotator should handle the windload just fine, the amount of weight directly on the G-450 may come close to the K factor maximum rated for the rotator. Second, if your area is known for inclement weather there may be ice loading which may affect the rotator's perofrmance. Finally, the control box for the G-450 is cheap. There is a history (mine included) of the clockwise and counter clockwise switches breaking quite easily. Parts and support from Yaesu are not forthcoming. I replaced my switches with same parts from Burghardt's (while Yaesu told me 10 weeks to order). After fixing the control box I elected to spend some extra money and move up to the Yaesu G-1000DXA rotator which is overkill....but gives me peace of mind. I would recommend at a minimum you go with the Yaesu G-800 model. Inital installation of mast and antenna on top of rotator is easily a 2 person job..3 would be better. Raising and lowering the antenna on the telescoping mast for checks and servicing can be a one person job with step ladder. Suggest you have WD40 handy to squirt in the mast joints to reduce some friction/drag that may occur when you try to raise the mast again. good luck, Harry WE1X ----- Original Message ----- From: axelrodw Date: Tuesday, July 1, 2003 7:26 pm Subject: [hex-beam] The adventure begins > > > > > After reading this reflector for a year and effecting a change in > my > > home owners association rules, I finally ordered my HX5Bi Hex Beam > > this week. So hopefully, there will be one more on the air in the > > near future. > > > > I've read all the posts on the yahoo site and the reviews on E- > > Ham.net. Looked at a fair number of installation pictures by now. > > > Really good starting information. > > > > With that as background, I'd like to solicit any suggestions, > ideas, > > help, etc. before I start installation. > > > > I will be installing the HX5Bi on Mike Traffie's ~30ft HDX mast. > I > > still have to deal with antenna restrictions so the antenna has to > > be behind my house and can't stick up over the roof (be visible > from > > the street). It's gotta be as stealthy as possible. > > > > Question 1. I've seen a number of posts about painting the Hex > Beam > > to enhance stealthness. So say paint it flat black. Others say > > gray or brown. From behind my house the antenna will be > contrasted > > against a black pitched roof. From one side it has the sky for a > > background; from the other some trees. What do you all recommend > as > > the best compromise stealth color to use? > > > > Question 2. I plan to use Mike Traffie's HDX mast and rotate the > > beam with a Yeasu G-450A rotator. I understand that this rotator > is > > probably overkill, but I'm more comfortable with over-engineering > > than the opposite. Based on Mike's recommendation, I plan to > ground > > mount the rotator. That gives me some personal problems with the > > need to use guy ropes. So, does anyone have any lessons learned > > worth sharing regarding this type installation? Any alternatives? > > > > Question 3. Any other thoughts, hints, tricks, traps, etc. not > > covered on the web site? > > > > Thank you all and 73... Bill K3WA > >

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1524. RE: Spider Beam.....Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-01 13:13:22 UTC
From: Kirby Bowman
Topic: 1524 Message: 1524

Wow... overnight the laws of physics, pertaining to space, increased by 100%:

w4wb furnishes that the Hex-Beam has a turning radius of <20', while the Spider Beam has almost 30' of turning radius. Our newfer should really be confused now. N5SWF

1525. Re: [hex-beam] The adventure begins

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-01 23:49:06 UTC
From: Jim Isbell
Topic: 1521 Message: 1525

OK, paint one side blue, one side green and another side black. Than make sure that the orientation of the antenna when you shut down is such that each color is on the correct side.

Also make your mast extendable...preferably with a motor drive...after dark you can push it up above the rooftop...probably do most of you operation after dark anyway.

Then grow some 8 foot trees at the front of the front lawn near the sidewalk. They wont interfere with the antenna but they will make it impossible to see the antenna from ground level because the angle to the top of the trees from the street will be too high.

axelrodw wrote:

>After reading this reflector for a year and effecting a change in my
>home owners association rules, I finally ordered my HX5Bi Hex Beam
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1526. Re: Spider Beam.....Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-02 01:11:00 UTC
From: w4wb
Topic: 1524 Message: 1526

--- In hex-beam@yahoogroups.com, "Kirby Bowman" <kirbybowman@s...>
wrote:
>
> Wow... overnight the laws of physics, pertaining to space,
increased
> by 100%:
>
> w4wb furnishes that the Hex-Beam has a turning radius of <20',
while
> the Spider Beam has almost 30' of turning radius. Our newfer should
> really be confused now. N5SWF

Make that diameter rather than radius. Nice to see you paying close
attention Kirby. :-)
73,
Barry - W4WB

1527. Re: [hex-beam] The adventure begins

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-02 01:48:40 UTC
From: Jason Hissong
Topic: 1521 Message: 1527

Hi Bill!

Congrats on your purchase. I don't think you will be dissappointed. My Hexbeam is at 32' (or 64' using Barry's physics HIHI ;-) and it performs quite well. I am starting to use QRP power levels and seeing what I can get by with... Liechenstein with 500mW!!

Hints, thoughts,... the only thing I can offer is it does not hurt to over engineer your installation. It is always best to err on the safe side. I have a G450XL which does pretty well for me. However, it is in the tower itself and not supporting a 30' mast.

Have fun, and BE SAFE!! Do not take any risks that are not necessary!! Your antenna is not any good if you are SK!!

Let us know when you get the antenna up... we would love to hear from you with your new antenna..

73!!

Jason Hissong
N8XE

axelrodw wrote:
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> home owners association rules, I finally ordered my HX5Bi Hex Beam
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1528. FD Report a little long

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-02 12:56:42 UTC
From: Richard Lim
Topic: 1528 Message: 1528

Hello gang, just a quick report from FD. I took my Hexbeam portable to our club's FD effort in Possum Hollow Forrest Preserve. The location is about 25mile West of Chicago and was an old rock quarry which was landfilled some time ago. The location is not ideal as there is about 2 inches of topsoil then 30 million tons (+/- a few tons :-)) of rock from Chicago's Deep Tunnel Project (another story) filling in the old quarry. As you can imagine, not the best location as far as achieving a good RF ground.

Nevertheless, the Hexbeam was mounted on the HXP mast on a 2ft piece of 3/4" conduit and guyed 6 times with 3/16" rope. No rotor, just strong arm technique. Additionally, I had placed a multiband dipole ala W5GI design at about 50ft to have a second antenna. The Hexbeam was locate about 30yds from this dipole. On to the good stuff.

The Hexbeam worked wonderfully! We had varying WX condx with wind, rain and sun! There was no issues with the beam and mast despite the wind and less than ideal setup. Too bad I couldn't put an umbrella element on the beam to help keep us dry.

Comparing the dipole and beam was very interesting. Even with stations exactly to the broadside of the dipole, the Hexbeam easily outperformed the dipole in both RX and TX. The noise level was about the same, but I could copy things on the Hexbeam which were not even S0 on the wire. The real interesting thing was the comments people were giving me. I was receiving comments of "Great signal, 20 over!" while I was receiveing them at S8-9. I was only using 100w and I'd assume that there should be reciprocity with signals assuming same power levels. Interesting phenomenon.

Finally I guess proof is in the pudding, our Q-rate approached 60-70 Q's per hr at times with the Hexbeam VS 20-30 with the wire last year. Also we made 625 contacts in about 20hr VS a little over 200 last year with the wire in the same time! I know that there are diffences in condx but I really believe that the beam helped us do much better than last year! I really like the beam and have enthusiastically recommended it to others! Great job Mike!

Take care all and thanks for reading!

Rich
KQ9L
(20m phone op for W9DUP club station)

1529. Re: 40M Model?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-03 01:05:27 UTC
From: k1fwe2000
Topic: 1371 Message: 1529

Barry:

Did you build the 40M hex? If so, could you share your results with me?

John
K1FWE

--- In hex-beam@yahoogroups.com, "n1eu" <n1eu@y...> wrote:
> Thanks Bob - your model does yield better results at the low end of
> the band.
>
> Thanks & 73,
> Barry N1EU
>
> --- In hex-beam@yahoogroups.com, "lz2be" <lz2be@y...> wrote:
> > Hi Barry,
> > I just uploaded a 40m MMANA model in LZ2BE file section. The way
I
> > did the calculations is the same I did for 5 band version which
I'm
> > using now. If this works for 5band version it should work for 40m
> too.
> > The settings are for 20m above real ground.
> > 73 de Bob LZ2BE
> >
> > --- In hex-beam@yahoogroups.com, "n1eu" <n1eu@y...> wrote:
> > > I uploaded the file into a new N1EU folder in the files section.
> > >
> > > FYI, MMANA is freeware and can be downloaded from
> > > http://www.qsl.net/mmhamsoft/mmana/
> > >
> > > 73,
> > > Barry N1EU
> > >
> > >
> > > --- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> > > > Barry,
> > > > sorry for delay...
> > > > That is interesting to hear. I had not much companions in
> > modeling
> > > > and did not build a 40 m version yet. So I could not confirm
> the
> > > > results by a practical test.
> > > > But there are known problems of the modeling software for
> > > > configurations with closed wires. And for our type of antenna

> the
> > > > wires are very close at the feeding point and at the end of
the
> > > > elements and both points are critical. I don't know MMANA but
> > will
> > > > have a look on it. May be it uses another kind of logarythm
> than
> > > NEC2-
> > > > or NEC4-based software.
> > > > Please put the file into the file section that I can get
access
> > to
> > > > it.
> > > > thanks Holger
> > > > --- In hex-beam@yahoogroups.com, "n1eu" <n1eu@y...> wrote:
> > > > > Thanks Holger! I used your dimensions and modeled it with
> > > MMANA.
> > > > In
> > > > > freespace, MMANA shows max f/b of 16dB at 7.050Mhz and f/b
of
> > 6dB
> > > > at
> > > > > 7.0Mhz and 7.2Mhz. The gain is 6.75dBi at 7.0Mhz and falls
> to
> > > > > 3.77dBi at 7.2Mhz. MMANA shows 2dBi gain for a dipole for
> > > > > comparison. The 50-ohm SWR is 6.5 at 7.0Mhz, 2.3 at
7.05Mhz,
> > and
> > > > 1.5
> > > > > or below 7.1-7.2Mhz.
> > > > >
> > > > > I need to get the SWR lower 7.0-7.05Mhz while keeping the
> gain
> > > > > high. I'm a cw op and use a Beverage for receiving so
don't
> > care
> > > > > about the f/b figure.
> > > > >
> > > > > Thanks & 73,
> > > > > Barry N1EU

1530. Field Day

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-03 13:57:43 UTC
From: Stuart Bloom
Topic: 804 Message: 1530

Hi,
Our club station, W5PDO, also had a Hexbeam 3B up about 50ft for field day. One of our club guru's built a half tilt half telescoping mast rig (square steel tubing, cables, electric winches)onto a surplus trailer. The top of the mast has a Yaesu Rotor at about 50ft. This was our primary station for 10/15/20 meters.

Worked great. I don't have any comparisons with a dipole or other antennas, but from Los Alamos, NM, we got some DX from Nova Scotia, Florida, Cuba, Alaska,and Moscow, RU (yeah, I know it doesn't count, but who's going to refuse a QSO from Moscow here in the southwestern US??

All antennas are a compromise. This antenna works for our emergency portable HF station. It is light, portable, easily setup and broken down (after you've done it once or twice).

Stu

_____
Do you Yahoo!?
SBC Yahoo! DSL - Now only $29.95 per month!
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1531. Hexbeam height

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-04 11:55:40 UTC
From: Pete Meier
Topic: 1531 Message: 1531

My tower is a 48 footer so my 5 band Hexbeam sits at about 50 ft.
Since the hexbeam optimum height is 40 ft. would it really be worth the
trouble to take out a section of my tower?
Would I realize a noticeable difference?

I would appreciate comments from anyone who has "been here, done that".

Thanks,

Pete WK8S

1532. Six Meter Halo and Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-04 15:42:42 UTC
From: Jason Hissong
Topic: 1532 Message: 1532

Hi guys,

I have been playing around with 6 Meters lately and I am thinking of getting a Par 6 Meter halo. Was wondering if anyone has had any experience with a Hexbeam and a Halo underneath. I know that Mike has stated that a beam under the hexbeam makes the hexbeam think it is ground. However, what about a Halo? I have the perfect place for it on my tower underneath the Hexbeam...

Anyways... thanks for the Info...

Jason
N8XE

BTW... The only reason I am going for the halo right now is the minimal investment for now. I think the halo will do fine for what I want to do. With the 6 Meter hex, I would have to get a rotor (albeit small and cheap) to get that going....so I am looking about 200.00 for it whereas the halo is much cheaper (plus the XYL is watching me like a hawk :)

1533. 17/20 meter Hex-Beam dualbander?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-04 17:33:51 UTC
From: Don Snodgrass
Topic: 1533 Message: 1533

Hello all..

I am contemplating the purchase of a Hex-Beam for use only on 17 and 20 meters. However, I note from the below table (from the Hex-Beam website) that apparently a dual band antenna for 17 and 20 is not currently available. Has anyone discussed this with Traffie Technology? Will they custom build a dual band antenna for 17 and 20?

Model	Band	Price
HX-1712i	17-12M	Special Order $559
HX-2015i	20-15M	Special Order $599
HX-5Bi	20-17-15-12-10M	$889
HXL-1510	15-10M	$299

73

Don

K4QKY
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Don Snodgrass
1624 Tabard Drive
Murray, KY 42071
270-767-9944

http://webpages.charter.net/donsno
donsno@...

<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

[Non-text portions of this message have been removed]

1534. Re: 17/20 meter Hex-Beam dualbander?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-04 19:11:21 UTC
From: w4wb
Topic: 1533 Message: 1534

Don,
I suggest you call Traffie yourself. 1.888.599.BEAM. Am sure he will be pleased to talk with you about your needs.
73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Don Snodgrass" <donsno@c...> wrote:
> Hello all..
>
> I am contemplating the purchase of a Hex-Beam for use only on 17 and 20 meters. However, I note from the below table (from the Hex-Beam website) that apparently a dual band antenna for 17 and 20 is not currently available. Has anyone discussed this with Traffie Technology? Will they custom build a dual band antenna for 17 and 20?
> Model Band Price
> HX-1712i 17-12M Special Order $559
> HX-2015i 20-15M Special Order $599
> HX-5Bi 20-17-15-12-10M $889
> HXL-1510 15-10M $299
>
>
> 73
>
> Don
>
> K4QKY
> >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
>
> Don Snodgrass
> 1624 Tabard Drive
> Murray, KY 42071
> 270-767-9944

1535. New poll for hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-04 20:39:47 UTC
From: hex-beam@yahoogroups.com
Topic: 406 Message: 1535

Enter your vote today! A new poll has been created for the
hex-beam group:

What are the reasons you bought,
homebrewed or are generally intetested
in the hex-beam? Please select
all that apply.

o Small footprint
o Light weight
o Low wind load
o Requires light duty rotator due to symetrical shape and light weight
o No tuning required
o Wanted beam antenna with gain on 40
o Wanted beam antenna with gain on 20
o Wanted beam antenna with gain on 17
o Wanted beam antenna with gain on 15
o Wanted beam antenna with gain on 12
o Wanted beam antenna with gain on 10
o Wanted beam antenna with gain on 6
o Didn't want to put up a tower
o Low visability
o No traps
o Broadbanded
o Low maintenance
o Cost per band
o Quality of construction
o Suitable for portable opertions
o Received as a gift
o Single feedline
o Reputation
o Referral
o Other - share as post if willing

To vote, please visit the following web page:

http://groups.yahoo.com/group/hex-beam/surveys?id=11141687

Note: Please do not reply to this message. Poll votes are
not collected via email. To vote, you must go to the Yahoo! Groups
web site listed above.

Thanks!

1536. New poll for hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-04 20:55:23 UTC
From: hex-beam@yahoogroups.com
Topic: 406 Message: 1536

Enter your vote today! A new poll has been created for the
hex-beam group:

Given the reason(s) you initially
purchased or homebrewed your hex-beam
and based on your personal experience
and or knowledge of other antennas,
would purchase or homebrew the hex-beam
today if you were making that decision
again?

o Yes
o No

To vote, please visit the following web page:

http://groups.yahoo.com/group/hex-beam/surveys?id=11141694

Note: Please do not reply to this message. Poll votes are
not collected via email. To vote, you must go to the Yahoo! Groups
web site listed above.

Thanks!

1537. Re: Hexbeam height

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-05 10:34:41 UTC
From: David Douglass
Topic: 1531 Message: 1537

Pete,

I'd suggest you play about with some modelling software to look at the variations in antenna height. From memory someone has posted data for a 5-band Hex in the files section that can be used in MMANA Modelling software. This will give you an idea of the various takes off angles with different height.

Unless someone has a couple of Hex-Beams sitting a different heights, and can instantly switch between them, I doubt anyone could really answer your question. You also need to bear in mind that the 'ideal height' for one band may not be ideal for another!!

For what it's worth I wouldn't be shortening your tower, unless you have other reasons for wanting to lower the antenna!!

GL
David, VK2DPD

> Message: 1
> Date: Fri, 4 Jul 2003 07:55:40 -0400
> From: Pete Meier <pmeier@...>
> Subject: Hexbeam height
>
> My tower is a 48 footer so my 5 band Hexbeam sits at about 50 ft.
> Since the hexbeam optimum height is 40 ft. would it really be worth the
> trouble to take out a section of my tower?
> Would I realize a noticeable difference?
>
> I would appreciate comments from anyone who has "been here, done that".
>
> Thanks,
>
> Pete WK8S

1538. 5 Band hex beam (Savannah Ga)

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-05 12:06:57 UTC
From: k4qcd
Topic: 1538 Message: 1538

Just worked VK3 land with my beam at 33 ft. with FT 920, no amp. and got a 58. The VK station was running 200w to a 4 over 4 Quad with hard line--a true commercial ant. and he was 59 to 10 over 59. Also, I couldn't build this ant. for the same cost, if I include the time it would take. Give the man the money--he earned it!!!

K4QCD--Bill DeLoach, Savannah, Ga.

1539. Explanation of No vote

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-05 14:03:02 UTC
From: Jason Hissong
Topic: 1539 Message: 1539

Hi guys,

Yea, that is me with the only no vote right now... :-)

Just wanted to explain my no vote in the latest poll. Trust me, I love my Hexbeam and it performs better than I expected. The only reason why I would not go for another is that I can get a quad that gets me gain on 12 and 17 for far less. That's all. However, the quads have a reputation for not withstanding the elements so I guess it is kinda grey for me. I can do quite a bit (like a whole K2!!) with the difference in cash between the quad and hexbeam.

Don't get me wrong, I think the Hexbeam is worth the money because of the workmanship (plus they are handmand) and the company is fantastic. A comparable antenna is the F12s 5 banders which are the same price but heavier.

73!

Jason
N8XE

1540. IMPRESSIONS AND PLANS

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-06 18:43:16 UTC
From: Andrea & Chuck Bridges
Topic: 1540 Message: 1540

I think that the poll helped me rethink my antenna plans. I would love to have an extensive antenna farm. The reality is that because of time and budget constraints I must make do with a small number of good performing, low maintenance antennas. I also live in an area of extremely high winds -- so low wind load factors are a prime consideration. My HX-5Bi fills that bill for me on the higher frequency HF bands.

Could I get higher performance with another antenna? Sure, but it would probably violate one of my constraints.

The next step for me will be to try to justify a tower to support a 40 meter antenna and some wires for the lower bands. Will I consider Hex-Beam? The same considerations that drew me to the HX-5Bi seem to be operable in this decision, too. Will I look around for alternatives? Sure, shopping for new gear is half the fun!

Well enough of my ramblings. As other commentators have suggested, the Hex-Beam is a compromise antenna, but one that fills the requirements of a bunch of hams.

73 de Chuck AK6DV

1541. Re: [hex-beam] IMPRESSIONS AND PLANS

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-06 19:36:03 UTC
From: Jim Isbell
Topic: 1540 Message: 1541

Andrea & Chuck Bridges wrote:

>low maintenance antennas. I also live in an area of extremely high winds --
>so low wind load factors are a prime consideration.
>

I, too, live in an area of high winds...sometimes hurricanes but almost always a minimum of 10-15 mph sea "breeze". I am planning on a Hex beam or a Spider beam not only because of the low wind loading, BUT also because the cost of rebuilding it..... (when the wind loading wasnt low enough #8-) .....after a hurricane will be far less than other multi band beams.

1542. Re: [hex-beam] New poll for hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-06 23:09:05 UTC
From: Gordon Sanders
Topic: 406 Message: 1542

I have been trying to vote but Yahoo keeps telling me that I don't belong to the group Hope to see/work some of you Hex Types again soon all been on the back burner here If I ever get recognised again by Yahoo who tell me I am not a member of the Hex Beam group Maybe I will get to vote basically yes great antenna and would buy again trying to get the club to *invest* in one - portable use
73/72
Gordon VA7XG
----- Original Message -----
From: <hex-beam@yahoogroups.com>
To: <hex-beam@yahoogroups.com>
Sent: Friday, July 04, 2003 1:39 PM
Subject: [hex-beam] New poll for hex-beam

>
> Enter your vote today! A new poll has been created for the
> hex-beam group:
>
> What are the reasons you bought,
> homebrewed or are generally intetested
> in the hex-beam? Please select
> all that apply.
>
> o Small footprint
> o Light weight
> o Low wind load
> o Requires light duty rotator due to symetrical shape and light weight
> o No tuning required
> o Wanted beam antenna with gain on 40
> o Wanted beam antenna with gain on 20
> o Wanted beam antenna with gain on 17
> o Wanted beam antenna with gain on 15
> o Wanted beam antenna with gain on 12
> o Wanted beam antenna with gain on 10
> o Wanted beam antenna with gain on 6
> o Didn't want to put up a tower
> o Low visability
> o No traps
> o Broadbanded
> o Low maintenance
> o Cost per band
> o Quality of construction
> o Suitable for portable opertions
> o Received as a gift
> o Single feedline

> o Reputation
> o Referral
> o Other - share as post if willing
>
>
> To vote, please visit the following web page:
>
> http://groups.yahoo.com/group/hex-beam/surveys?id=11141687
>
> Note: Please do not reply to this message. Poll votes are
> not collected via email. To vote, you must go to the Yahoo! Groups
> web site listed above.
>
> Thanks!
>
>
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>
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> hex-beam-unsubscribe@yahoogroups.com
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>
>
>

1543. Polls

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-06 23:40:07 UTC
From: w6hb
Topic: 1543 Message: 1543

Sorry for my typos. I do not know why the questions did not appear in the same order as submitted on the polls format page. I am surprised that the desire for gain on 20 is not tracking the other HF bands. 73 - Doug - W6HB

1544. Re: IMPRESSIONS AND PLANS

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-07 00:44:57 UTC
From: w4wb
Topic: 1540 Message: 1544

HI Jim,

I'm thinking about getting the Spider Beam kit to play with although I think my HX-5B Hex-Beam still yields more bang for the buck ... smaller, good performance, and all five bands. 17 m will be a work horse band for the next few years.

Note that the SB is much larger than the HB and isn't as symmetrical as the HB. Wind loading introduces a bending moment in the support while the asymmetry introduces torque on the rotor and support. The latter is often the more important consideration.

Just a few thoughts.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, Jim Isbell <millenniumfalcon@c...>
wrote:
<snip>
I am planning on a Hex beam
> or a Spider beam not only because of the low wind loading, BUT also
> because the cost of rebuilding it..... (when the wind loading wasnt
low
> enough #8-) .....after a hurricane will be far less than other
multi
> band beams.

1545. Re: Polls

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-07 00:46:53 UTC
From: w4wb
Topic: 1543 Message: 1545

--- In hex-beam@yahoogroups.com, "w6hb" <w6hb@a...> wrote:
> Sorry for my typos. I do not know why the questions did not appear
in
> the same order as submitted on the polls format page. I am
surprised
> that the desire for gain on 20 is not tracking the other HF
> bands. 73 - Doug - W6HB

Likely because 20 m is at the bottom of the poll Doug.

73 de Barry - W4WB

1546. Re: [hex-beam] Re: IMPRESSIONS AND PLANS

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-07 02:34:16 UTC
From: Jim Isbell
Topic: 1540 Message: 1546

I wont be getting a kit, I will home brew it. And so far it looks like the Spider beam is easier to construct with two fewer arms and pretty straight forward. My main concern it replacing it later (i KNOW a hurricane is going to take it down so I might as well be prepared to replace it) so the simplest/cheapest is the way I will probably go even if at the sacrifice of efficiency.

w4wb wrote:

>HI Jim,
>
>I'm thinking about getting the Spider Beam kit to play with although
>I think my HX-5B Hex-Beam still yields more bang for the buck ...
>smaller, good performance, and all five bands. 17 m will be a work
>horse band for the next few years.
>
>Note that the SB is much larger than the HB and isn't as symmetrical
>as the HB. Wind loading introduces a bending moment in the support
>while the asymmetry introduces torque on the rotor and support. The
>latter is often the more important consideration.
>
>Just a few thoughts.
>
>73,
>Barry - W4WB
>
>--- In hex-beam@yahoogroups.com, Jim Isbell <millenniumfalcon@c...>
>wrote:
><snip>
>I am planning on a Hex beam
>
>
>>or a Spider beam not only because of the low wind loading, BUT also
>>because the cost of rebuilding it..... (when the wind loading wasnt
>>
>>
>low
>
>
>>enough #8-) .....after a hurricane will be far less than other
>>
>>
>multi
>
>

>>band beams.
>>
>>
>
>
>
>To unsubscribe from this group, send an email to:
>hex-beam-unsubscribe@yahoogroups.com
>
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>Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
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>
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>
>

1547. plate for homebrew hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-07 02:14:53 UTC
From: John Doe
Topic: 1547 Message: 1547

Does anyone know what thickness of aluminum plate (6061) is required for a homebrew 5 band hexbeam? I'm trying to find an approximately 18 inch square plate. I'm thinking 1/4 inch should be enough but 3/16 might save a little weight. But I really don't know the strength of aluminum...I'm an EE not a ME ;-)

I'm so cheap I would try the plywood route but I don't want to be working on it every year.

Any ideas? Thanks In Advance.

Joe
KE9AI

_____
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1548. crappie rod for speaders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-07 17:40:56 UTC
From: John Doe
Topic: 1548 Message: 1548

Has anyone used, or tried to use, the crappie fishing rods for spreaders?
They are available in 10, 13, and 16 1/2 ft lengths for 6, 8, and $10 each.

Cabela's has them.

Joe
KE9AI

_____
MSN 8 with e-mail virus protection service: 2 months FREE*
http://join.msn.com/?page=features/virus

1549. Homebrew plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-07 21:31:28 UTC
From: k0co_5
Topic: 1549 Message: 1549

Without searching through hundreds of messages....

Is there an integrated set of plans for a homebrew multi-band design, including how to arrange the feed lines for multi band attach points, etc.? I see a snippet here and an idea there, but am stll looking for an overall, "I did it this way, and it works" set of plans.

((Yep, buying one is another way, but I don't have a spare $800 or whatever...., sorry)).
tnx.

1550. Re: [hex-beam] crappie rod for speaders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-07 23:30:32 UTC
From: Ed Fox
Topic: 1548 Message: 1550

I live near Cabela's (Faribault, MN) and have one of their crappie rods. I use it for a telescoping mast with a half wave "roll up" 2 meter antenna (when hiking). But my guess is it would be too flimsy to last very long in a hex-beam configuration. Ed, N0OQ

>From: "John Doe" <dieselfumes63@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] crappie rod for speaders?
>Date: Mon, 07 Jul 2003 10:40:56 -0700
>
>Has anyone used, or tried to use, the crappie fishing rods for spreaders?
>They are available in 10, 13, and 16 1/2 ft lengths for 6, 8, and $10 each.
>
>Cabela's has them.
>
>Joe
>KE9AI
>
>_____
>MSN 8 with e-mail virus protection service: 2 months FREE*
>http://join.msn.com/?page=features/virus
>

_____
Add photos to your e-mail with MSN 8. Get 2 months FREE*.
http://join.msn.com/?page=features/featuredemail

1551. RE: [hex-beam] Homebrew plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-08 03:24:57 UTC
From: m0clz
Topic: 1549 Message: 1551

In the files section VE7ASK has plans for a hexbeam from bamboo and DL7IO has a pdf file with detailed measurements. I have most of the files section here but have not built one yet, still looking for a suitable hub.

Have Fun

Dick m0clz

-----Original Message-----
From: k0co_5 [mailto:k0co_5@...]
Sent: Monday, July 07, 2003 10:31 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Homebrew plans

Without searching through hundreds of messages....

Is there an integrated set of plans for a homebrew multi-band design, including how to arrange the feed lines for multi band attach points, etc.? I see a snippet here and an idea there, but am stll looking for an overall, "I did it this way, and it works" set of plans.

((Yep, buying one is another way, but I don't have a spare $800 or whatever...., sorry)).
tnx.

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.497 / Virus Database: 296 - Release Date: 7/4/03

1552. Re: crappie rod for speaders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-08 17:46:11 UTC
From: john_dilo
Topic: 1548 Message: 1552

I tried to use six of their 13' rods, but it didn't work out. I had two U-bolts per rod on my plate, and they crushed several of the rods where they made contact. My next step is to buy the fiberglass tubes that nest from MGS.

John
K8DIL

--- In hex-beam@yahoogroups.com, "John Doe" <dieselfumes63@h...> wrote:
> Has anyone used, or tried to use, the crappie fishing rods for spreaders?
> They are available in 10, 13, and 16 1/2 ft lengths for 6, 8, and $10 each.
>
> Cabela's has them.
>
> Joe
> KE9AI
>
> _____
> MSN 8 with e-mail virus protection service: 2 months FREE*
> http://join.msn.com/?page=features/virus

1553. FD Pics

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-09 13:02:52 UTC
From: Richard Lim
Topic: 1553 Message: 1553

Hi gang, just put some pics up in the photo section under KQ9L. This is a picture of the hexbeam/p on the 30ft push up mast at our FD site. The beam was set up for 20M and was driven by a K2/100. Enjoy!
Rich
KQ9L

1554. Re: crappie rod for speaders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-09 14:23:33 UTC
From: ve7ask
Topic: 1548 Message: 1554

I used the first four sections of the 16.5-foot Cabelas crappie pole in a spider beam (same hub construction as my homebrew hex, but with four spreaders instead of six). The last section of the rod is very thin, so I took it out.

To prevent the U-bolts from crushing the fiberglass pole, I inserted short sections of fairly large diameter (I think it was 1") wooden broom handle into the stub ends of the poles. Worked like a charm.

Later, to make the poles longer (closer to the 16.5-foot original length) I added 3-foot sections of PVC pipe filled with dowelling to each spreader. That, too, has worked out well.

The crappie pole isn't the ideal solution and may need mechanical help for some uses, but it's a very inexpensive alternative for folks who want to test a concept before investing in more costly spreaders.

-- Bud, VE7ASK | VA7ST

--- In hex-beam@yahoogroups.com, "john_dilo" <john_dilo@y...> wrote:
> I tried to use six of their 13' rods, but it didn't work out. I
had
> two U-bolts per rod on my plate, and they crushed several of the
rods
> where they made contact. My next step is to buy the fiberglass
tubes
> that nest from MGS.
>
> John
> K8DIL
>
> --- In hex-beam@yahoogroups.com, "John Doe" <dieselfumes63@h...>
> wrote:
> > Has anyone used, or tried to use, the crappie fishing rods for
> spreaders?
> > They are available in 10, 13, and 16 1/2 ft lengths for 6, 8, and
> $10 each.
> >
> > Cabela's has them.
> >
> > Joe
> > KE9AI
> >
> > _____
> > MSN 8 with e-mail virus protection service: 2 months FREE*
> > http://join.msn.com/?page=features/virus

1555. Re: [hex-beam] Re: crappie rod for speaders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-10 20:33:12 UTC
From: Jim Isbell
Topic: 1548 Message: 1555

You need to put wooden plugs into the ends of the rods to prevent them
from crusshing.

john_dilo wrote:

>I tried to use six of their 13' rods, but it didn't work out. I had
>two U-bolts per rod on my plate, and they crushed several of the rods
>where they made contact. My next step is to buy the fiberglass tubes
>that nest from MGS.
>
>John
>K8DIL
>
>--- In hex-beam@yahoogroups.com, "John Doe" <dieselfumes63@h...>
>wrote:
>
>
>>Has anyone used, or tried to use, the crappie fishing rods for
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>spreaders?
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>>They are available in 10, 13, and 16 1/2 ft lengths for 6, 8, and
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>$10 each.
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>
>>Cabela's has them.
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>>Joe
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>>_____
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>
>

1556. Installation tips

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-11 01:33:34 UTC
From: Marty N5NW
Topic: 1556 Message: 1556

I have acquired a used 5-band hexbeam and a 40 ft. aluminum tower. On the tower, I have a vertical dual-band base antenna for VHF/UHF. Can this antenna be mounted above the hexbeam? Or will the resulting pattern be unuseable? I'd really like to kick the VHF/UHF up to the 45-50 ft level. I don't think sidearms are an option at this point.

Thanks for the advice ...

--
73 de N5NW/8 (Marty)
Bellbrook, Ohio

1557. Re: Installation tips

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-11 02:09:59 UTC
From: w4wb
Topic: 1556 Message: 1557

Should work fine if you put an offset bracket for the vert. ant. and run it up the cold side of the HB between the reflector and driven element.
73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Marty N5NW" <n5nw@n...> wrote:
> I have acquired a used 5-band hexbeam and a 40 ft. aluminum tower. On the
> tower, I have a vertical dual-band base antenna for VHF/UHF. Can this
> antenna be mounted above the hexbeam? Or will the resulting pattern be
> unuseable? I'd really like to kick the VHF/UHF up to the 45-50 ft level. I
> don't think sidearms are an option at this point.
>
> Thanks for the advice ...
>
> --
> 73 de N5NW/8 (Marty)
> Bellbrook, Ohio

1558. Re: [hex-beam] Re: crappie rod for speaders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-09 11:27:24 UTC
From: Jeff Anderson
Topic: 1548 Message: 1558

Who, or what, is MGS? How can I contact them?

Thanks!

- Jeff, WA6AHL
----- Original Message -----
From: "john_dilo" <john_dilo@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, July 08, 2003 10:46 AM
Subject: [hex-beam] Re: crappie rod for speaders?

> I tried to use six of their 13' rods, but it didn't work out. I had
> two U-bolts per rod on my plate, and they crushed several of the rods
> where they made contact. My next step is to buy the fiberglass tubes
> that nest from MGS.
>
> John
> K8DIL
>
> --- In hex-beam@yahoogroups.com, "John Doe" <dieselfumes63@h...>
> wrote:
> > Has anyone used, or tried to use, the crappie fishing rods for
> spreaders?
> > They are available in 10, 13, and 16 1/2 ft lengths for 6, 8, and
> $10 each.
> >
> > Cabela's has them.
> >
> > Joe
> > KE9AI
> >
> > _____
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>

1559. Re: protecting crappie rod for speaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-11 02:19:26 UTC
From: w4wb
Topic: 1548 Message: 1559

I believe you will find that the rods will last better if you use Sch. 40 PVC over the rod end. The PVC ID should be just a bit smaller than the rod's OD. Next cut down the length of the PVC so that you have a split C. Now use a screwdriver or something to spread the PVC enough to get it over the rod. The resulting load from the U-bolts will be spread over the rod much better and greatly reduce the possibility of harming the rod.

This is a good idea to do to older Hex-Beam as well.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "ve7ask" <ve7ask@r...> wrote:
> I used the first four sections of the 16.5-foot Cabelas crappie pole
> in a spider beam (same hub construction as my homebrew hex, but with
> four spreaders instead of six). The last section of the rod is very
> thin, so I took it out.
>
> To prevent the U-bolts from crushing the fiberglass pole, I inserted
> short sections of fairly large diameter (I think it was 1") wooden
> broom handle into the stub ends of the poles. Worked like a charm.
>
> Later, to make the poles longer (closer to the 16.5-foot original
> length) I added 3-foot sections of PVC pipe filled with dowelling to
> each spreader. That, too, has worked out well.
>
> The crappie pole isn't the ideal solution and may need mechanical
> help for some uses, but it's a very inexpensive alternative for folks
> who want to test a concept before investing in more costly spreaders.
>
> -- Bud, VE7ASK | VA7ST

1560. where to start?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-11 12:31:10 UTC
From: Eric S. Johansson
Topic: 1560 Message: 1560

I would like to take a stab at building my own hexbeam clone. I figure I would start with a two band version (20 and 17) and if successful, work my way up to 10 (6?). I figure that by the time I actually finished building the thing, the sunspots will be returning and 10 years will be useful. ;-)

So, pointers would be appreciated.

Many thanks in advance
---eric
ka1eec

1561. Re: [hex-beam] where to start?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-11 14:04:24 UTC
From: Don Snodgrass
Topic: 1560 Message: 1561

Hello Eric and others...

Like yourself, I operate mostly on 17 and 20 meters (with tuned wire loop) but would like to move up to a dual bander Hex Beam. I've even called the company to inquire about the possibility of a 17/20 dual bander. I was told that development costs preclude offering such an antenna, at least for now.

So, home brewing a two band version may be the only alternative but I got the impression when I talked to the company that you may be in for a challenge finding the right measurements, etc. Designing it with two feed points rather than a common feed point might simplify things.

Just my thoughts. Hopefully someone has already perfected a homebrew design will speak up here. If not, maybe you will share your experience as you undertake your project.

Best wishes,

Don

K4QKY
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Don Snodgrass
1624 Tabard Drive
Murray, KY 42071
270-767-9944

http://webpages.charter.net/donsno
donsno@...

<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<
----- Original Message -----
From: Eric S. Johansson
To: hex-beam@yahoogroups.com
Sent: Friday, July 11, 2003 7:31 AM
Subject: [hex-beam] where to start?

I would like to take a stab at building my own hexbeam clone. I figure I would start with a two band version (20 and 17) and if successful, work my way up to 10 (6?). I figure that by the time I actually finished building the thing, the sunspots will be returning and 10 years will be useful. ;-)

So, pointers would be appreciated.

Many thanks in advance
---eric
ka1eec

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[Non-text portions of this message have been removed]

1562. Re: crappie rod for speaders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-11 14:48:05 UTC
From: john_dilo
Topic: 1548 Message: 1562

MGS offers fiberglass rods and tubing. They have a range of sizes
that "nest", so that erlatively long lengths can be made of from 8'
sections. Their web site is at http://www.mgs4u.com/fiberg.htm

Good Luck and 73

John DiLorenzo
K8DIL

--- In hex-beam@yahoogroups.com, "Jeff Anderson" <jeffa@i...> wrote:
> Who, or what, is MGS? How can I contact them?
>
> Thanks!
>
> - Jeff, WA6AHL
> ----- Original Message -----
> From: "john_dilo" <john_dilo@y...>
> To: <hex-beam@yahoogroups.com>
> Sent: Tuesday, July 08, 2003 10:46 AM
> Subject: [hex-beam] Re: crappie rod for speaders?
>
>
> > I tried to use six of their 13' rods, but it didn't work out. I
had
> > two U-bolts per rod on my plate, and they crushed several of the
rods
> > where they made contact. My next step is to buy the fiberglass
tubes
> > that nest from MGS.
> >
> > John
> > K8DIL
> >
> > --- In hex-beam@yahoogroups.com, "John Doe" <dieselfumes63@h...>
> > wrote:
> > > Has anyone used, or tried to use, the crappie fishing rods for
> > spreaders?
> > > They are available in 10, 13, and 16 1/2 ft lengths for 6, 8,
and
> > $10 each.
> > >
> > > Cabela's has them.
> > >
> > > Joe
> > > KE9AI
> > >

> > >

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> >

1563. started my Martha beam today...

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-11 23:28:46 UTC
From: John Doe
Topic: 1563 Message: 1563

Well I found bamboo at kmart with the Martha Steward name on it so I'm calling my beam the Martha Beam. I don't figure Martha's lawyers will get after me about it since they're pretty busy right now...HI HI

Anyway. I got the 20 meter driven element and reflector strung and I tried to tune it by feeding it to my Drakes. The best SWR I could get was 2.4 at 14.2 MHZ, and it goes up from there on both sides of that frequency. 14.2 MHZ looks like resonance.

I'm wondering if I have something wrong, or if the close proximity to ground is causing it. The base is only 3 feet off the ground, and it's going to take more coax to get it hgher, and I have the coax coming next week.

Have any of you noticed what your SWR was when you were tuning the wires lengths with it near the ground? Did it change when you got it to the recommended height of 40 feet?

Thanks for any help you can give me.

Joe
KE9AI

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1564. Hex Beam 287 almost on the air

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-12 01:28:13 UTC
From: axelrodw
Topic: 1564 Message: 1564

First, Thanks to all who responded to my request for advice regarding the Hex Beam. I got it together today. Thanks to the info available on Hex Beam site and everyone's advise, I had enough info to supplement the tech manual.

The beam went together with no problems and I test drove it some tonight with it sitting on a card table about 3 feet off the ground out in the back yard. Much to my surprise, the SWR was within specs on all bands except the upper part of 10 meters. I aimed it vaguely north east and worked a couple of Europeans on 20. That's good enough for now.

Tomorrow comes the hardest part of the installation - digging the hole to mount the mast and rotator.

I'll share my impressions once I ge it up in the air.

73... Bill K3WA

1565. Re: [hex-beam] Hex Beam 287 almost on the air

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-12 01:35:16 UTC
From: Jason Hissong
Topic: 1564 Message: 1565

Bill,

Let us know when you get it on the air... maybe we can get an impromptu
Hexbeam net together and work you!

73
Jason Hissong
N8XE

axelrodw wrote:
> First, Thanks to all who responded to my request for advice
> regarding the Hex Beam. I got it together today. Thanks to the
> info available on Hex Beam site and everyone's advise, I had enough
> info to supplement the tech manual.
>
> The beam went together with no problems and I test drove it some
> tonight with it sitting on a card table about 3 feet off the ground
> out in the back yard. Much to my surprise, the SWR was within specs
> on all bands except the upper part of 10 meters. I aimed it vaguely
> north east and worked a couple of Europeans on 20. That's good
> enough for now.
>
> Tomorrow comes the hardest part of the installation - digging the
> hole to mount the mast and rotator.
>
> I'll share my impressions once I ge it up in the air.
>
> 73... Bill K3WA
>
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1566. RE: [hex-beam] Re: Installation tips

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-12 02:15:35 UTC
From: Marty N5NW
Topic: 1556 Message: 1566

What about mounting the vertical VHF/UHF to the main mast of the hexbeam, at the top?

de N5NW (Marty)
Bellbrook, Ohio

-----Original Message-----
From: w4wb [mailto:w4wb@...]
Sent: Thursday, July 10, 2003 10:10 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Installation tips

Should work fine if you put an offset bracket for the vert. ant. and run it up the cold side of the HB between the reflector and driven element.
73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Marty N5NW" <n5nw@n...> wrote:
> I have acquired a used 5-band hexbeam and a 40 ft. aluminum tower. On the
> tower, I have a vertical dual-band base antenna for VHF/UHF. Can this
> antenna be mounted above the hexbeam? Or will the resulting pattern be
> unuseable? I'd really like to kick the VHF/UHF up to the 45-50 ft level. I
> don't think sidearms are an option at this point.
>
> Thanks for the advice ...
>
> --
> 73 de N5NW/8 (Marty)
> Bellbrook, Ohio

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1567. Re: Installation tips

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-12 03:25:32 UTC
From: w4wb
Topic: 1556 Message: 1567

Not a good idea Marty. Nothing much to grab and not adequate
strength.
73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Marty N5NW" <n5nw@n...> wrote:
> What about mounting the vertical VHF/UHF to the main mast of the
hexbeam, at
> the top?
>
> de N5NW (Marty)
> Bellbrook, Ohio

1568. RE: [hex-beam] Re: Installation tips

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-12 04:05:14 UTC
From: Marty N5NW
Topic: 1556 Message: 1568

Thanks for the help ... it will be a while before I can get the tower up, so
I can think about things for a bit. I may leave the vertical on the current
chimney mount.

de N5NW (Marty)
Bellbrook, Ohio

-----Original Message-----
From: w4wb [mailto:w4wb@...]
Sent: Friday, July 11, 2003 11:26 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Installation tips

Not a good idea Marty. Nothing much to grab and not adequate
strength.
73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "Marty N5NW" <n5nw@n...> wrote:
> What about mounting the vertical VHF/UHF to the main mast of the
hexbeam, at
> the top?
>
> de N5NW (Marty)
> Bellbrook, Ohio

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1569. Mounting the Hex Beam to the HDX-30 mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-12 12:25:52 UTC
From: Bill Axelrod
Topic: 1569 Message: 1569

All,

As I work towards putting my Hex Beam in the air...

The Hex Beam manual says I should drill a hole in the bottom of the hub plate and through the mast to put a locking bolt in place.

The adapter that comes with the HDX-30 mast looks like a pretty solid piece of metal.

For those of you who have used this combination - have you drilled the hole for the locking bolt? Any problems? Any hints?

I live in an area that is NOT subjected to much high winds or icing. The beam will be behind the house below roof level (antenna restrictions) so will be protected from North winds.

I appreciate any advice.

73... Bill K3WA
----- Original Message -----
From: <hex-beam@yahoogroups.com>
To: <hex-beam@yahoogroups.com>
Sent: Saturday, July 12, 2003 6:09 AM
Subject: [hex-beam] Digest Number 373

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> ---
>
> There are 9 messages in this issue.
>
> Topics in this digest:
>
> 1. where to start?
> From: "Eric S. Johansson" <esj@...>
> 2. Re: where to start?
> From: "Don Snodgrass" <donsno@...>
> 3. Re: crappie rod for speaders?
> From: "john_dilo" <john_dilo@...>
> 4. started my Martha beam today...
> From: "John Doe" <dieselfumes63@...>
> 5. Hex Beam 287 almost on the air
> From: "axelrodw" <bill@...>

> 6. Re: Hex Beam 287 almost on the air
> From: Jason Hissong <jhisson1@...>
> 7. RE: Re: Installation tips
> From: "Marty N5NW" <n5nw@...>
> 8. Re: Installation tips
> From: "w4wb" <w4wb@...>
> 9. RE: Re: Installation tips
> From: "Marty N5NW" <n5nw@...>
>
>
> _____
> _____
>
> Message: 1
> Date: Fri, 11 Jul 2003 08:31:10 -0400
> From: "Eric S. Johansson" <esj@...>
> Subject: where to start?
>
> I would like to take a stab at building my own hexbeam clone. I figure I
would
> start with a two band version (20 and 17) and if successful, work my way
up to
> 10 (6?). I figure that by the time I actually finished building the
thing, the
> sunspots will be returning and 10 years will be useful. ;-)
>
> So, pointers would be appreciated.
>
> Many thanks in advance
> ---eric
> ka1eec
>
>
>
>
> _____
> _____
>
> Message: 2
> Date: Fri, 11 Jul 2003 09:04:24 -0500
> From: "Don Snodgrass" <donsno@...>
> Subject: Re: where to start?
>
> Hello Eric and others...
>
> Like yourself, I operate mostly on 17 and 20 meters (with tuned wire loop)
but would like to move up to a dual bander Hex Beam. I've even called the
company to inquire about the possibility of a 17/20 dual bander. I was told
that development costs preclude offering such an antenna, at least for now.
>

> So, home brewing a two band version may be the only alternative but I got the impression when I talked to the company that you may be in for a challenge finding the right measurements, etc. Designing it with two feed points rather than a common feed point might simplify things.
>
> Just my thoughts. Hopefully someone has already perfected a homebrew design will speak up here. If not, maybe you will share your experience as you undertake your project.
>
> Best wishes,
>
> Don
>
> K4QKY
> >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
>
> Don Snodgrass
> 1624 Tabard Drive
> Murray, KY 42071
> 270-767-9944
>
> http://webpages.charter.net/donsno
> donsno@...
>
> <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<
> ----- Original Message -----
> From: Eric S. Johansson
> To: hex-beam@yahoogroups.com
> Sent: Friday, July 11, 2003 7:31 AM
> Subject: [hex-beam] where to start?
>
>
> I would like to take a stab at building my own hexbeam clone. I figure I would
> start with a two band version (20 and 17) and if successful, work my way up to
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> ---eric
> ka1eec
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> --
> --
>
> Message: 3
> Date: Fri, 11 Jul 2003 14:48:05 -0000
> From: "john_dilo" <john_dilo@...>
> Subject: Re: crappie rod for speaders?
>
> MGS offers fiberglass rods and tubing. They have a range of sizes
> that "nest", so that erlatively long lengths can be made of from 8'
> sections. Their web site is at http://www.mgs4u.com/fiberg.htm
>
> Good Luck and 73
>
> John DiLorenzo
> K8DIL
>
> --- In hex-beam@yahoogroups.com, "Jeff Anderson" <jeffa@i...> wrote:
> > Who, or what, is MGS? How can I contact them?
> >
> > Thanks!
> >
> > - Jeff, WA6AHL
> > ----- Original Message -----
> > From: "john_dilo" <john_dilo@y...>
> > To: <hex-beam@yahoogroups.com>
> > Sent: Tuesday, July 08, 2003 10:46 AM
> > Subject: [hex-beam] Re: crappie rod for speaders?
> >
> >
> > > I tried to use six of their 13' rods, but it didn't work out. I
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> > > where they made contact. My next step is to buy the fiberglass
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> _____
> _____
>
> Message: 4
> Date: Fri, 11 Jul 2003 16:28:46 -0700
> From: "John Doe" <dieselfumes63@...>
> Subject: started my Martha beam today...
>
> Well I found bamboo at kmart with the Martha Steward name on it so I'm
> calling my beam the Martha Beam. I don't figure Martha's lawyers will get

> after me about it since they're pretty busy right now...HI HI
>
> Anyway. I got the 20 meter driven element and reflector strung and I
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> to tune it by feeding it to my Drakes. The best SWR I could get was 2.4
at
> 14.2 MHZ, and it goes up from there on both sides of that frequency. 14.2
> MHZ looks like resonance.
>
> I'm wondering if I have something wrong, or if the close proximity to
ground
> is causing it. The base is only 3 feet off the ground, and it's going to
> take more coax to get it hgher, and I have the coax coming next week.
>
> Have any of you noticed what your SWR was when you were tuning the wires
> lengths with it near the ground? Did it change when you got it to the
> recommended height of 40 feet?
>
> Thanks for any help you can give me.
>
> Joe
> KE9AI
>
> _____
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> http://join.msn.com/?page=features/virus
>
>
>
> _____
> _____
>
> Message: 5
> Date: Sat, 12 Jul 2003 01:28:13 -0000
> From: "axelrodw" <bill@...>
> Subject: Hex Beam 287 almost on the air
>
> First, Thanks to all who responded to my request for advice
> regarding the Hex Beam. I got it together today. Thanks to the
> info available on Hex Beam site and everyone's advise, I had enough
> info to supplement the tech manual.
>
> The beam went together with no problems and I test drove it some
> tonight with it sitting on a card table about 3 feet off the ground
> out in the back yard. Much to my surprise, the SWR was within specs
> on all bands except the upper part of 10 meters. I aimed it vaguely
> north east and worked a couple of Europeans on 20. That's good
> enough for now.
>
> Tomorrow comes the hardest part of the installation - digging the

> hole to mount the mast and rotator.
>
> I'll share my impressions once I ge it up in the air.
>
> 73... Bill K3WA
>
>
>
> ---
> ---
>
> Message: 6
> Date: Fri, 11 Jul 2003 21:35:16 -0400
> From: Jason Hissong <jhisson1@...>
> Subject: Re: Hex Beam 287 almost on the air
>
> Bill,
>
> Let us know when you get it on the air... maybe we can get an impromptu
> Hexbeam net together and work you!
>
> 73
> Jason Hissong
> N8XE
>
> axelrodw wrote:
> > First, Thanks to all who responded to my request for advice
> > regarding the Hex Beam. I got it together today. Thanks to the
> > info available on Hex Beam site and everyone's advise, I had enough
> > info to supplement the tech manual.
> >
> > The beam went together with no problems and I test drove it some
> > tonight with it sitting on a card table about 3 feet off the ground
> > out in the back yard. Much to my surprise, the SWR was within specs
> > on all bands except the upper part of 10 meters. I aimed it vaguely
> > north east and worked a couple of Europeans on 20. That's good
> > enough for now.
> >
> > Tomorrow comes the hardest part of the installation - digging the
> > hole to mount the mast and rotator.
> >
> > I'll share my impressions once I ge it up in the air.
> >
> > 73... Bill K3WA
> >
> >
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<http://rd.yahoo.com/M=194081.3551198.4824677.1261774/D=egroupweb/S=17050631

08:HM/A=1663535/R=0/SIG=11ps6rfef/*http://www.ediets.com/start.cfm?code=3050
4&media=atkins>
> >
> >
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> >
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> > <http://docs.yahoo.com/info/terms/>.
>
>
>
>
> _____
> _____
>
> Message: 7
> Date: Fri, 11 Jul 2003 22:15:35 -0400
> From: "Marty N5NW" <n5nw@...>
> Subject: RE: Re: Installation tips
>
> What about mounting the vertical VHF/UHF to the main mast of the hexbeam,
at
> the top?
>
> de N5NW (Marty)
> Bellbrook, Ohio
>
>
> -----Original Message-----
> From: w4wb [mailto:w4wb@...]
> Sent: Thursday, July 10, 2003 10:10 PM
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] Re: Installation tips
>
>
> Should work fine if you put an offset bracket for the vert. ant. and
> run it up the cold side of the HB between the reflector and driven
> element.
> 73,
> Barry - W4WB
>
>
>
> --- In hex-beam@yahoogroups.com, "Marty N5NW" <n5nw@n...> wrote:
> > I have acquired a used 5-band hexbeam and a 40 ft. aluminum tower.
> On the
> > tower, I have a vertical dual-band base antenna for VHF/UHF. Can

> this
> > antenna be mounted above the hexbeam? Or will the resulting
> pattern be
> > unuseable? I'd really like to kick the VHF/UHF up to the 45-50 ft
> level. I
> > don't think sidearms are an option at this point.
> >
> > Thanks for the advice ...
> >
> > --
> > 73 de N5NW/8 (Marty)
> > Bellbrook, Ohio
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>
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>
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>
>
> ~~~~~~
> ~~~~~~
>
> Message: 8
> Date: Sat, 12 Jul 2003 03:25:32 -0000
> From: "w4wb" <w4wb@...>
> Subject: Re: Installation tips
>
> Not a good idea Marty. Nothing much to grab and not adequate
> strength.
> 73,
> Barry - W4WB
>
> --- In hex-beam@yahoogroups.com, "Marty N5NW" <n5nw@n...> wrote:
> > What about mounting the vertical VHF/UHF to the main mast of the
> hexbeam, at
> > the top?
> >
> > de N5NW (Marty)
> > Bellbrook, Ohio
>
>
>
>

> _____
> _____
>
> Message: 9
> Date: Sat, 12 Jul 2003 00:05:14 -0400
> From: "Marty N5NW" <n5nw@...>
> Subject: RE: Re: Installation tips
>
> Thanks for the help ... it will be a while before I can get the tower up,
so
> I can think about things for a bit. I may leave the vertical on the
current
> chimney mount.
>
> de N5NW (Marty)
> Bellbrook, Ohio
>
>
> -----Original Message-----
> From: w4wb [mailto:w4wb@...]
> Sent: Friday, July 11, 2003 11:26 PM
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] Re: Installation tips
>
>
> Not a good idea Marty. Nothing much to grab and not adequate
> strength.
> 73,
> Barry - W4WB
>
> --- In hex-beam@yahoogroups.com, "Marty N5NW" <n5nw@n...> wrote:
> > What about mounting the vertical VHF/UHF to the main mast of the
> hexbeam, at
> > the top?
> >
> > de N5NW (Marty)
> > Bellbrook, Ohio
>
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
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>

1570. Postscript on sleeve for protecting HB arms.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-12 20:18:54 UTC
From: w4wb
Topic: 1570 Message: 1570

I have had several folks ask the question about why you shouldn't put a dowel into the Hex-Beam arm. The reason is that the Hex-Beam armsy are tapered and a constant dowel diameter may result in a fracture at the inter-most location of the dowel under heavy loading (wind, ice, etc.). The U-bolts also put stress directly onto the fiberglass of the arms, which is not good either.

Placing the slit PVC pipe (about 5-6" long) over the end of the arm allows the pipe to form a conical sleeve that matches the conical shape of the arms. When the U-bolt is tightened down over the PVC pipe, the stress is spread over a larger area of the arm and hence protects it from fracture.

The same is true for the fishing rods regarding distribution of the stress.

73,
Barry - W4WB

1571. Re: where to start?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-12 23:35:49 UTC
From: David Douglass
Topic: 1560 Message: 1571

Eric,

If you are eventually planning to have 5 bands I would suggest you go straight to making the 5 band version and forget about the 2 bander. Reasons for this are..

1. If you make a 2 bander first, you will have to modify the length and tip spacing on the elements, when you add the extra bands..

2. Dimensions are already available for the 5 band version, so this will save you a 'lot' (and I mean a lot) of experimentation..

3. I really don't think building a 2 bander would be much simpler than a 5 band version.

GL de David, VK2DPD

> Message: 1
> Date: Fri, 11 Jul 2003 08:31:10 -0400
> From: "Eric S. Johansson" <esj@...>
> Subject: where to start?
>
> I would like to take a stab at building my own hexbeam clone. I figure I would
> start with a two band version (20 and 17) and if successful, work my way up to
> 10 (6?). I figure that by the time I actually finished building the thing, the
> sunspots will be returning and 10 years will be useful. ;-)
>
> So, pointers would be appreciated.
>
> Many thanks in advance
> ---eric
> ka1eec

1572. Hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-13 13:39:32 UTC
From: srietkovic
Topic: 1572 Message: 1572

Hello all people in group !!!

I looking for detail descriptions and dimensions of this antenna.Before few year a have a 2 el CQ but his is damaged from very strong wind (180 km/h!!!) and now i reading about Hex Beam antenna ,and my conclusion is that is very good and not too big for my roof so people please help me making my own Hex Beam !!

Best regards from 9A5WW !!!!!!!!!

1573. martha beam nearly complete

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-14 02:27:39 UTC
From: John Doe
Topic: 1573 Message: 1573

well the Martha Beam is nearly finished. (I call it that because it is made with Martha Steward bamboo rods from Kmart.) I finished adding all the wires for all 5 bands and changed the center feed points to use coax down the mast. Also, the plywood base has been primed once, and painted twice with good house paint. I also painted the bamboo spreaders for a little more protection. I must have spent 5 or 7 hours playing with the wire symetry

Testing at 5 feet indicates SWR is getting down to about 1.6 on 10/15/20 meters but is very sensitive to antenna direction for some reason. That's probably because of the very close proxity to vegetation or my garage or my neighbor's house ...HI HI...I really need to get it into the air to tune it in, but it's looking very good at this point.

I need to gather all the things I need to get it up on a 36 feet radio shack mast. Hopefully sometime next weekend I'll get it on the air at 40 feet.

Joe
KE9AI

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1574. Re: plate for homebrew hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-16 18:44:57 UTC
From: kg4eqd
Topic: 1547 Message: 1574

> I'm so cheap I would try the plywood route but I don't want to be working on
> it every year.

I'm so cheap, I DID use plywood, and it lasted longer than I would have guessed.

I had a homebrew tri-bander up for about two years(17m, 15m, and 10m). No 20 meters, the spreaders were too big, nor could I get it high enough for 20 meters. Great F/B ratio, good ears in front.

My 15/32 plywood(cut from scrapped interior CDX) base plate was just fine, until a 25 pound tree branch fell across it during our ice storm last December. Actually, the branch was much heavier, because it(and the antenna) were loaded down with ice.

The plywood had several coats of exterior paint before it went up in the air. It showed no signs of rot when it came down.

I have decided to use the two plywood ends off a spent rg-58 coax spool as replacements. Epoxied together, they should be good for several years. But I think I'll wait until the next sunspot peak....

Also, I had used PVC for the spreaders, guyed together with tarred nylon "trot line". None of those are broken, but the crappie rods are a better idea for reducing the weight.

I enjoyed building that antenna as much as using it. My XYL was, however, somewhat less enthusiastic....

Have fun with it.

73,
Keith, W4KAZ

1575. Re: [hex-beam] Re: plate for homebrew hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-16 21:07:37 UTC
From: John Doe
Topic: 1547 Message: 1575

Well I did end up using a plywood base and bamboo spreaders to make a 5 band beam. I coated the plywood with 2 coats of primer and 2 coats of good exterior house paint. I painted the bamboo spreaders twice. Who knows how long it will last but I'm giving it a shot. The antenna is complete but I need to put it up on a mast, hopefully this w/e. Total cost of antenna was about $50. If it breaks it can be rebuilt. I can't hardly wait to fire it up at height.

Joe
KE9AI

>From: "kg4eqd" <kazeringue@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] Re: plate for homebrew hex
>Date: Wed, 16 Jul 2003 18:44:57 -0000
>
>
> > I'm so cheap I would try the plywood route but I don't want to be
>working on
> > it every year.
>
>I'm so cheap, I DID use plywood, and it lasted longer than I would
>have guessed.
>
>I had a homebrew tri-bander up for about two years(17m, 15m, and
>10m). No 20 meters, the spreaders were too big, nor could I get it
>high enough for 20 meters. Great F/B ratio, good ears in front.
>
>My 15/32 plywood(cut from scrapped interior CDX) base plate was just
>fine, until a 25 pound tree branch fell across it during our ice
>storm last December. Actually, the branch was much heavier, because
>it(and the antenna) were loaded down with ice.
>
>The plywood had several coats of exterior paint before it went up in
>the air. It showed no signs of rot when it came down.
>
>I have decided to use the two plywood ends off a spent rg-58 coax
>spool as replacements. Epoxied together, they should be good for
>several years. But I think I'll wait until the next sunspot peak....
>
>Also, I had used PVC for the spreaders, guyed together with tarred
>nylon "trot line". None of those are broken, but the crappie rods
>are a better idea for reducing the weight.
>

>I enjoyed building that antenna as much as using it. My XYL was,
>however, somewhat less enthusiastic....
>
>Have fun with it.
>
>73,
>Keith, W4KAZ
>

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1576. DX is still there

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-16 23:55:20 UTC
From: w4wb
Topic: 1576 Message: 1576

There are still DX opportunities out there. Yesterday and today I worked two SV stations on 20 m on first call. Also got a TA on 20 m today --- first call. Odd conditions on 20 m yesterday afternoon resulted in a nice 15 minute QSO with JA7DXX with us both 20/9! Other EU stations there also. The old Hex-Beam keeps on singing!

73,
Barry - W4WB

1577. Re: hexbeam 9A5WW

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-17 19:52:33 UTC
From: P. Buijserd
Topic: 1577 Message: 1577

hello Sinisa,
welcome to the group. you will find a lot of information on homebrewing your hexbeam at the files section of the Yahoo Groups homepage:
http://groups.yahoo.com/group/hex-beam/files/
I have a commercial Hexbeam for 10 and 15, but added 6 myself, and will be trying to add something for 20 to it. not quite sure how yet, but I have some ideas....; just need to find the time!
73, Peter PB1TT

> Date: Sun, 13 Jul 2003 13:39:32 -0000
> From: "srietkovic" <sinisa.rietkovic@...>
> Subject: Hex beam
>
>
> Hello all people in group !!!
>
> I looking for detail descriptions and dimensions of this
> antenna.Before few year a have a 2 el CQ but his is damaged from very
> strong wind (180 km/h!!!) and now i reading about Hex Beam
> antenna ,and my conclusion is that is very good and not too big for
> my roof so people please help me making my own Hex Beam !!
>
> Best regards from 9A5WW !!!!!!!!!
>

1578. martha beam is up at 20 feet and pointed north

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-19 00:21:31 UTC
From: John Doe
Topic: 1578 Message: 1578

rotor not functioning yet but I was able to get the push up pole to 20 feet. SWR on 20 is 1.18 at 14.2 mhz, swr on 15 is 1.0 on 21.2mhz, and SWR on 10 is 1.7 at 28.5 which is my lowest freq on my drakes. SWR looks unbelievably good.

Tomorrow morning I'll get the rotator going, and pull it up to 40 feet.

Joe
KE9AI

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1579. Martha beam up and running

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-20 15:15:10 UTC
From: John Doe
Topic: 1579 Message: 1579

I finished the installation yesterday. After all my worry about SWR on 20 meters, I now have 1 watt coming back with 900 going forward for an SWR of 1.07. I'll take it. 15 also is flat. I have 10 cut a bit long so I'm getting 1.7 at 28.5mhz but it's falling nicely from the higher freqs.

Signal reports yesterday on 20 were very promising. QSB makes it a little difficult to get reliable readings but here is what I got. F/b look like about 5 dB. Off the side it it looks like 20 dB or more.

Joe KE9AI

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1580. Re: [hex-beam] Martha beam up and running

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-20 17:58:16 UTC
From: Jim Isbell
Topic: 1579 Message: 1580

Tell me again why yopu called it Marthas Beam? My wifes name is Martha
and it catches my eye everytine you use the name.

John Doe wrote:

>I finished the installation yesterday. After all my worry about SWR on 20
>meters, I now have 1 watt coming back with 900 going forward for an SWR of
>1.07. I'll take it. 15 also is flat. I have 10 cut a bit long so I'm
>getting 1.7 at 28.5mhz but it's falling nicely from the higher freqs.
>
>Signal reports yesterday on 20 were very promising. QSB makes it a little
>difficult to get reliable readings but here is what I got. F/b look like
>about 5 dB. Off the side it it looks like 20 dB or more.
>
>Joe KE9AI
>
>_____
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>

1581. Re: [hex-beam] Martha beam up and running

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-20 21:06:18 UTC
From: John Doe
Topic: 1579 Message: 1581

I call it the Martha beam because it is made of bamboo poles from Kmart with
the Martha Steward name on them. I figured her lawyers were a bit too busy
to come after me for using her name....hi hi

Joe
KE9AI

>From: Jim Isbell <millenniumfalcon@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: Re: [hex-beam] Martha beam up and running
>Date: Sun, 20 Jul 2003 12:58:16 -0500
>
>Tell me again why yopu called it Marthas Beam? My wifes name is Martha
>and it catches my eye everytine you use the name.
>
>John Doe wrote:
>
> >I finished the installation yesterday. After all my worry about SWR on
>20
> >meters, I now have 1 watt coming back with 900 going forward for an SWR
>of
> >1.07. I'll take it. 15 also is flat. I have 10 cut a bit long so I'm
> >getting 1.7 at 28.5mhz but it's falling nicely from the higher freqs.
> >
> >Signal reports yesterday on 20 were very promising. QSB makes it a
>little
> >difficult to get reliable readings but here is what I got. F/b look
>like
> >about 5 dB. Off the side it it looks like 20 dB or more.
> >
> >Joe KE9AI
> >
> >_____
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1582. Re: [hex-beam] Martha beam up and running

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-20 23:40:47 UTC
From: Ed Fox
Topic: 1579 Message: 1582

Okay, so lets pick a time and get on the air for a QSO.....elf (in Minnesota)

>From: "John Doe" <dieselfumes63@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: Re: [hex-beam] Martha beam up and running
>Date: Sun, 20 Jul 2003 14:06:18 -0700
>
>I call it the Martha beam because it is made of bamboo poles from Kmart
>with
>the Martha Steward name on them. I figured her lawyers were a bit too busy
>to come after me for using her name....hi hi
>
>Joe
>KE9AI
>
>
> >From: Jim Isbell <millenniumfalcon@...>
> >Reply-To: hex-beam@yahoogroups.com
> >To: hex-beam@yahoogroups.com
> >Subject: Re: [hex-beam] Martha beam up and running
> >Date: Sun, 20 Jul 2003 12:58:16 -0500
> >
> >Tell me again why yopu called it Marthas Beam? My wifes name is Martha
> >and it catches my eye everytine you use the name.
> >
> >John Doe wrote:
> >
> > >I finished the installation yesterday. After all my worry about SWR on
> >20
> > >meters, I now have 1 watt coming back with 900 going forward for an SWR
> >of
> > >1.07. I'll take it. 15 also is flat. I have 10 cut a bit long so I'm
> > >getting 1.7 at 28.5mhz but it's falling nicely from the higher freqs.
> > >
> > >Signal reports yesterday on 20 were very promising. QSB makes it a
> >little
> > >difficult to get reliable readings but here is what I got. F/b look
> >like
> > >about 5 dB. Off the side it it looks like 20 dB or more.
> > >
> > >Joe KE9AI
> > >
> > >_____

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1583. New use for Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-21 03:58:22 UTC
From: Garry
Topic: 1583 Message: 1583

Well I found a new use for a hex beam. I have been paying for satellite tv for some time now but I do get a couple of local channels with rabbit ears. Today I made a small hexbeam for the vhf portion of the TV band and ran it up about 14 feet, fed it with rg59u. Man I can't believe it. I get 12 channels with that little antenna, some really great and the others all fully watchable. That's probably better than I been getting with the dish. (We don't hardly watch TV anyway except for local news during diner.) I kept cutting back on the service till I am right at the basics now and with the basic channels many are simple duplication of channels that run the same garbage but in a different time zone.

Guess I know where to tell the sat provider to put the dish LOL. I can get ten channels without even rotating the dish once I get it spotted to best advantage. And the Hex antenna is so small to boot.

Cheers

Garry Ve7ajj

1584. Re: Martha beam up and running

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-21 07:53:14 UTC
From: w4wb
Topic: 1579 Message: 1584

Hi Joe,

Nice effort! If all you are getting for F/B is 5 dB, you need to
retune. Should see much more than that.

GL,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "John Doe" <dieselfumes63@h...>
wrote:
> I finished the installation yesterday. After all my worry about
SWR on 20
> meters, I now have 1 watt coming back with 900 going forward for an
SWR of
> 1.07. I'll take it. 15 also is flat. I have 10 cut a bit long so
I'm
> getting 1.7 at 28.5mhz but it's falling nicely from the higher
freqs.
>
> Signal reports yesterday on 20 were very promising. QSB makes it a
little
> difficult to get reliable readings but here is what I got. F/b
look like
> about 5 dB. Off the side it it looks like 20 dB or more.
>
> Joe KE9AI
>
> _____
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1585. hello from JA

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-17 04:57:36 UTC
From: zut599
Topic: 1585 Message: 1585

Hello hex-beam users!
I've just joined this list now.

I've been using HEX-BEAM HX-5Bi from Feb.,2003.
It works much better than I expected.
I'm very satisfied with it.
This antenna is small and light-weight
so that it's very good for installing JA's
small house :-)

GUD DX!
de JE1TRV, Atsu in Tokyo Japan

1586. Re: Martha Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-21 11:21:33 UTC
From: David Douglass
Topic: 1586 Message: 1586

Well done Joe, and hope your bamboo spreaders hold up OK.

Barry is right, and you should be getting a little better FB than 5dB. Acccording to the models they range from abour 9-12 between 12 and 20 metres, but it's pretty ordinary on 10 Metres at just above 6dB. Anyway, if it works OK, I wouldn't worry too much about the numbers.

Regards

David, VK2DPD

1587. Hexbeam compatibility with a nearby 6 meter beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-21 11:26:51 UTC
From: n1ix@att.net
Topic: 1587 Message: 1587

I have recently discovered the 6 meter band and I am thinking about putting a 3 element 6 meter beam on my tower just under my 5 band hexbeam. The distance seperating them would only be a few feet. I have read on this reflector and elsewhere that another antenna near the hex causes detuning of the hexbeam and SWR problems. Does anyone have any experience with another antenna near the hexbeam?

Dave N1IX
> rotor not functioning yet but I was able to get the push up pole to 20 feet.
> SWR on 20 is 1.18 at 14.2 mhz, swr on 15 is 1.0 on 21.2mhz, and SWR on 10
> is 1.7 at 28.5 which is my lowest freq on my drakes. SWR looks unbelievably
> good.
>
> Tomorrow morning I'll get the rotator going, and pull it up to 40 feet.
>
> Joe
> KE9AI
>
> _____
> The new MSN 8: advanced junk mail protection and 2 months FREE*
> http://join.msn.com/?page=features/junkmail
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>

> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

1588. Re: [hex-beam] Re: Martha beam up and running

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-21 11:32:27 UTC
From: John Doe
Topic: 1579 Message: 1588

I did a little more testing last night and f/b looks more like 10 dB. I've had reports ranging from 5 to 15 but fading was so bad yesterday it was pretty difficult to tell. The 5 dB f/b was the lowest anyone told me.

I was able to compare it with my inverted vee which is pretty much omnidirectional and I'm seeing about 8 to 10 dB of gain on the martha beam. I really could see the difference on very weak signals from europe on 20m (like S 2 or 3). Switching from the inverted Vee to the martha would cause the audio to jump out of my old Drake R-4c.

What I can't get over, especially with all of my trouble with SWR when it was on the ground, is the matching. I found a spot on 20 meters were I get 1 watt back with 1250 watts forward. Now that's a good match.

More testing to follow.

Joe
KE9AI

>From: "w4wb" <w4wb@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] Re: Martha beam up and running
>Date: Mon, 21 Jul 2003 07:53:14 -0000
>
>Hi Joe,
>
>Nice effort! If all you are getting for F/B is 5 dB, you need to
>retune. Should see much more than that.
>
>GL,
>Barry - W4WB
>
>
>--- In hex-beam@yahoogroups.com, "John Doe" <dieselfumes63@h...>
>wrote:
> > I finished the installation yesterday. After all my worry about
>SWR on 20
> > meters, I now have 1 watt coming back with 900 going forward for an
>SWR of
> > 1.07. I'll take it. 15 also is flat. I have 10 cut a bit long so
>I'm
> > getting 1.7 at 28.5mhz but it's falling nicely from the higher
>freqs.
> >
> > Signal reports yesterday on 20 were very promising. QSB makes it a

>little
> > difficult to get reliable readings but here is what I got. F/b
>look like
> > about 5 dB. Off the side it it looks like 20 dB or more.
> >
> > Joe KE9AI
> >
> > _____
> > MSN 8 with e-mail virus protection service: 2 months FREE*
> > http://join.msn.com/?page=features/virus
>

_____
STOP MORE SPAM with the new MSN 8 and get 2 months FREE*
http://join.msn.com/?page=features/junkmail

1589. Re: [hex-beam] Martha beam up and running

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-21 20:39:52 UTC
From: John Doe
Topic: 1579 Message: 1589

Sure...How about 8 pm central time near 14.2 mhz +/- 10khz. What's your
call.

Joe
KE9AI

>From: "Ed Fox" <elfox@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: Re: [hex-beam] Martha beam up and running
>Date: Sun, 20 Jul 2003 23:40:47 +0000
>
>Okay, so lets pick a time and get on the air for a QSO.....elf (in
>Minnesota)
>
>
> >From: "John Doe" <dieselfumes63@...>
> >Reply-To: hex-beam@yahoogroups.com
> >To: hex-beam@yahoogroups.com
> >Subject: Re: [hex-beam] Martha beam up and running
> >Date: Sun, 20 Jul 2003 14:06:18 -0700
> >
> >I call it the Martha beam because it is made of bamboo poles from Kmart
> >with
> >the Martha Steward name on them. I figured her lawyers were a bit too
>busy
> >to come after me for using her name....hi hi
> >
> >Joe
> >KE9AI
> >
> >
> > >From: Jim Isbell <millenniumfalcon@...>
> > >Reply-To: hex-beam@yahoogroups.com
> > >To: hex-beam@yahoogroups.com
> > >Subject: Re: [hex-beam] Martha beam up and running
> > >Date: Sun, 20 Jul 2003 12:58:16 -0500
> > >
> > >Tell me again why yopu called it Marthas Beam? My wifes name is Martha
> > >and it catches my eye everytine you use the name.
> > >
> > >John Doe wrote:
> > >
> > > >I finished the installation yesterday. After all my worry about SWR
>on

> > >20
> > > >meters, I now have 1 watt coming back with 900 going forward for an
>SWR
> > >of
> > > >1.07. I'll take it. 15 also is flat. I have 10 cut a bit long so
>I'm
> > > >getting 1.7 at 28.5mhz but it's falling nicely from the higher freqs.
> > > >
> > > >Signal reports yesterday on 20 were very promising. QSB makes it a
> > >little
> > > >difficult to get reliable readings but here is what I got. F/b look
> > >like
> > > >about 5 dB. Off the side it it looks like 20 dB or more.
> > > >
> > > >Joe KE9AI
> > > >
> > > >_____
> > > >MSN 8 with e-mail virus protection service: 2 months FREE*
> > > >http://join.msn.com/?page=features/virus
> > > >
> > > >
> > > >
> > > >To unsubscribe from this group, send an email to:
> > > >hex-beam-unsubscribe@yahoogroups.com
> > > >
> > > >
> > > >
> > > >Your use of Yahoo! Groups is subject to
> >http://docs.yahoo.com/info/terms/
> > > >
> > > >
> > > >
> > > >
> > > >
> > >
> > >
> >
> >_____
> >Protect your PC - get McAfee.com VirusScan Online
> >http://clinic.mcafee.com/clinic/ibuy/campaign.asp?cid=3963
> >
>
>_____
>Protect your PC - get McAfee.com VirusScan Online
>http://clinic.mcafee.com/clinic/ibuy/campaign.asp?cid=3963
>

_____
The new MSN 8: advanced junk mail protection and 2 months FREE*
http://join.msn.com/?page=features/junkmail

1590. Re: [hex-beam] Martha beam up and running

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-21 21:30:11 UTC
From: Ed Fox
Topic: 1579 Message: 1590

My call is N0OQ. Will try to make the schedule. Ed

>From: "John Doe" <dieselfumes63@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: Re: [hex-beam] Martha beam up and running
>Date: Mon, 21 Jul 2003 13:39:52 -0700
>
>Sure...How about 8 pm central time near 14.2 mhz +/- 10khz. What's your
>call.
>
>Joe
>KE9AI
>
>
> >From: "Ed Fox" <elfox@...>
> >Reply-To: hex-beam@yahoogroups.com
> >To: hex-beam@yahoogroups.com
> >Subject: Re: [hex-beam] Martha beam up and running
> >Date: Sun, 20 Jul 2003 23:40:47 +0000
> >
> >Okay, so lets pick a time and get on the air for a QSO.....elf (in
> >Minnesota)
> >
> >
> > >From: "John Doe" <dieselfumes63@...>
> > >Reply-To: hex-beam@yahoogroups.com
> > >To: hex-beam@yahoogroups.com
> > >Subject: Re: [hex-beam] Martha beam up and running
> > >Date: Sun, 20 Jul 2003 14:06:18 -0700
> > >
> > >I call it the Martha beam because it is made of bamboo poles from Kmart
> > >with
> > >the Martha Steward name on them. I figured her lawyers were a bit too
> >busy
> > >to come after me for using her name....hi hi
> > >
> > >Joe
> > >KE9AI
> > >
> > >
> > > >From: Jim Isbell <millenniumfalcon@...>
> > > >Reply-To: hex-beam@yahoogroups.com
> > > >To: hex-beam@yahoogroups.com
> > > >Subject: Re: [hex-beam] Martha beam up and running

> > > >Date: Sun, 20 Jul 2003 12:58:16 -0500
> > > >
> > > >Tell me again why yopu called it Marthas Beam? My wifes name is
>Martha
> > > >and it catches my eye everytine you use the name.
> > > >
> > > >John Doe wrote:
> > > >
> > > > >I finished the installation yesterday. After all my worry about
>SWR
> >on
> > > >20
> > > > >meters, I now have 1 watt coming back with 900 going forward for an
> >SWR
> > > >of
> > > > >1.07. I'll take it. 15 also is flat. I have 10 cut a bit long so
> >I'm
> > > > >getting 1.7 at 28.5mhz but it's falling nicely from the higher
>freqs.
> > > > >
> > > > >Signal reports yesterday on 20 were very promising. QSB makes it a
> > > >little
> > > > >difficult to get reliable readings but here is what I got. F/b
>look
> > > >like
> > > > >about 5 dB. Off the side it it looks like 20 dB or more.
> > > > >
> > > > >Joe KE9AI
> > > > >
> > > > >_____
> > > > >MSN 8 with e-mail virus protection service: 2 months FREE*
> > > > >http://join.msn.com/?page=features/virus
> > > > >
> > > > >
> > > > >
> > > > >To unsubscribe from this group, send an email to:
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> > > > >
> > > > >
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> > >_____
> > >Protect your PC - get McAfee.com VirusScan Online
> > >http://clinic.mcafee.com/clinic/ibuy/campaign.asp?cid=3963
> > >
> >
> >_____
> >Protect your PC - get McAfee.com VirusScan Online
> >http://clinic.mcafee.com/clinic/ibuy/campaign.asp?cid=3963
> >
>
>_____
>The new MSN 8: advanced junk mail protection and 2 months FREE*
>http://join.msn.com/?page=features/junkmail
>

_____
MSN 8 with e-mail virus protection service: 2 months FREE*
http://join.msn.com/?page=features/virus

1591. Hexbeam on a side arm

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-23 02:06:53 UTC
From: Jason Hissong
Topic: 1591 Message: 1591

Hi guys,

I was thinking (oh no!) of mounting my Hexbeam on a side arm from Glen Martin. The side arm would be mounted to the mast. So the Hexbeam would still be close to the mast, but the mast would go through the hexbeam and allow me to put the 6 meter Hexbeam at the top. I think the only bad thing would be the weight over to one side. However, the hexbeam would be mounted right at the thrust bearing, right next to the mast so the weight to one side should not be much (on top of that, the 5 bander would not be that heavy.)

The other thing is mounting the side arm to the mast. Probably with some u bolts and some stainless steel plates drilled for the u bolts.

Any thoughts? Anyone else do anything similar?

I REALLY want to get the 6 Meter hexbeam installed on the tower. And putting it above the Hexbeam would be desirable...

73!

Jason

1592. Re: [hex-beam] Hexbeam on a side arm

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-23 10:57:36 UTC
From: IslPilot@aol.com
Topic: 1591 Message: 1592

Jason:

Why would you want the 6M hex on top? Shouldn't that go on the side arm because of the higher freq and reduced height requirement?

I have the 5 bander on my 65' tower and am considering putting the 40M Hex on top and moving the 5 bander to a side arm because the 40M Hex being lower in freq would benefit from being on top.

Curious if the rest of the group agrees with me

Paul
Charlevoix, MI

[Non-text portions of this message have been removed]

1593. Re: Hexbeam on a side arm

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-07-24 03:12:58 UTC
From: w4wb
Topic: 1591 Message: 1593

Paul,

Better to have it above than below, but it should be above as much as possible. 6 m likes height. My best antenna for 6 m was a 12-bay RCA antenna (300' tall) on top of a 1000' tower. Okay, during normal hours, we used it for Channel 2 TV. hi hi

It is important also that the side post be run up the cold side of the HB.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, IslPilot@a... wrote:
> Jason:
>
> Why would you want the 6M hex on top? Shouldn't that go on the side arm
> because of the higher freq and reduced height requirement?
>
> I have the 5 bander on my 65' tower and am considering putting the 40M Hex on
> top and moving the 5 bander to a side arm because the 40M Hex being lower in
> freq would benefit from being on top.
>
> Curious if the rest of the group agrees with me
>
> Paul
> Charlevoix, MI
>
>
> [Non-text portions of this message have been removed]

1594. Number 289 almost on the air

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-04 03:00:15 UTC
From: aa5charliehotel
Topic: 1594 Message: 1594

Hi there.

HX5BI Number 289 is assembled, mounted on the 40 foot pushup pole, is 12 feet up, and almost ready to go up the rest of the way. As soon as the guy ropes are cut and attached to the rings and a couple of pairs of extra hands can be rounded up, we'll see how well it plays. I haven't tried it yet as the coax still needs to be run through the attic and down the wall to the shack...not something I wanted to do this afternoon while it was 95 degrees.

When my wife (N5NAP) saw it assembled in the front yard, she said, "Is this about the last one?" However, this afternoon she said that that it was her "favorite antenna." She helped me set the pushup pole on the short pipe section this afternoon after I attached the rotor and the antenna.

I'm glad I reviewed the postings here before I put up the Hex Beam. As a result, I learned that guy rope should be used rahter than wire, what type and how many ferrite beads to use, and where to get them....very useful info. Thanks.

Hopefully, I will be able to post a report on how well it is working in a few days. My local ham friends think I'm nuts for purchasing this antenna, rather than a Cuschcraft MA5B or the TGM Hybrid Quad. After researching, I came to the conclusion that the Hex Beam was the best beam I could get in the air, using a heavy duty pushup pole and an inexpensive rotator. We'll see....

73,

Brad
AA5CH

1595. Re: Number 289 almost on the air

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-04 04:50:48 UTC
From: w6hb
Topic: 1594 Message: 1595

Hi Brad.

Remind your friends that you are not nuts, just a new HexNut! With the Hex, you have gain and bandwidth on 5 bands where the MA5 and TGM do not. Let me know when you want a sched to run patterns or compare reports. Do you have another antenna as a reference?

73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "aa5charliehotel" <aa5ch@a...> wrote:
> Hi there.
>
> HX5BI Number 289 is assembled, mounted on the 40 foot pushup pole, is
> 12 feet up, and almost ready to go up the rest of the way. As soon as
> the guy ropes are cut and attached to the rings and a couple of pairs
> of extra hands can be rounded up, we'll see how well it plays. I
> haven't tried it yet as the coax still needs to be run through the
> attic and down the wall to the shack...not something I wanted to do
> this afternoon while it was 95 degrees.
>
> When my wife (N5NAP) saw it assembled in the front yard, she
> said, "Is this about the last one?" However, this afternoon she said
> that that it was her "favorite antenna." She helped me set the pushup
> pole on the short pipe section this afternoon after I attached the
> rotor and the antenna.
>
> I'm glad I reviewed the postings here before I put up the Hex Beam.
> As a result, I learned that guy rope should be used rahter than wire,
> what type and how many ferrite beads to use, and where to get
> them....very useful info. Thanks.
>
> Hopefully, I will be able to post a report on how well it is working
> in a few days. My local ham friends think I'm nuts for purchasing
> this antenna, rather than a Cuschcraft MA5B or the TGM Hybrid Quad.
> After researching, I came to the conclusion that the Hex Beam was the
> best beam I could get in the air, using a heavy duty pushup pole and
> an inexpensive rotator. We'll see....

>
> 73,
>
> Brad
> AA5CH

1596. Re: [hex-beam] Number 289 almost on the air

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-04 12:07:59 UTC
From: Jason Hissong
Topic: 1594 Message: 1596

Brad,

Awesome!! Glad you are making good progress. About your friends:

When that rare one comes up.... asked them how well they are doing trying to contact them. Then let them know that you got em on a first try!! HIHI... seriously though, as Doug, W6HB, mentioned, you get gain on 17 and 12. You cannot go wrong with that.

I work QRP alot and my Hexbeam really helps my little signal get out. I worked Greece on 100mW a couple of days ago. It was exciting!!

Anyways... I would also like to set up a sched with you... I will be in Keywest for 10 days leaving on Thursday. Maybe Doug, myself, and you can get together and then we can do some comparisons. I have a vertical, dipole, and the Hexbeam and that way we can test things out.

73!

Jason Hissong
N8XE

aa5charliehotel wrote:
> Hi there.
>
> HX5BI Number 289 is assembled, mounted on the 40 foot pushup pole, is
> 12 feet up, and almost ready to go up the rest of the way. As soon as
> the guy ropes are cut and attached to the rings and a couple of pairs
> of extra hands can be rounded up, we'll see how well it plays. I
> haven't tried it yet as the coax still needs to be run through the
> attic and down the wall to the shack...not something I wanted to do
> this afternoon while it was 95 degrees.
>
> When my wife (N5NAP) saw it assembled in the front yard, she
> said, "Is this about the last one?" However, this afternoon she said
> that that it was her "favorite antenna." She helped me set the pushup
> pole on the short pipe section this afternoon after I attached the
> rotor and the antenna.
>
> I'm glad I reviewed the postings here before I put up the Hex Beam.
> As a result, I learned that guy rope should be used rahter than wire,
> what type and how many ferrite beads to use, and where to get
> them....very useful info. Thanks.
>
> Hopefully, I will be able to post a report on how well it is working
> in a few days. My local ham friends think I'm nuts for purchasing
> this antenna, rather than a Cuschcraft MA5B or the TGM Hybrid Quad.

> After researching, I came to the conclusion that the Hex Beam was the
> best beam I could get in the air, using a heavy duty pushup pole and
> an inexpensive rotator. We'll see....
>
> 73,
>
> Brad
> AA5CH
>
>
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> <http://rd.yahoo.com/M=259538.3625325.4914071.1261774/D=egroupweb/S=1705063108:HM/A=1695
348/R=0/SIG=11u38u3s2/*http://hits.411web.com/cgi-bin/hit?page=1374-105951838331032>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/>.

1597. Re: Plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-06 19:56:21 UTC
From: dmwatkins20032002
Topic: 495 Message: 1597

```
george i to would like to build a mono band 6 or 10 meter hex beam
if you get any plans would you please send them or post them on the
group page 73's mike kg4fsx knoxville tenn.

--- In hex-beam@yahoogroups.com, "George Shaw" <george.shaw@u...>
wrote:
> Gents
>
> Where are plans available for the Hex, particularly details of the
feeder
> etc. I have been asked by others as I will probably buy mine.
>
> --
> George Shaw
>
> eMail: george.shaw@b...
> eMail: george.shaw@u...
> Home: +44 (0) 28 9062 8924
> Mobile: +44 (0) 77 4036 1163
> ICQ#: 1741675
```

1598. martha beam update

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-07 22:09:50 UTC
From: John Doe
Topic: 1598 Message: 1598

Hi guys,

Martha has been performing beautifully for the last three weeks with one exception. I was tuning up on 20 meter and trying to squeeze a few more watts out of the drake l4b and all of a sudden I see the reflected power shoots way up. A visual of the antenna revealed that I melted the nylon rope holding the 20 meter driven element.

I drop the beam down, installed lexan insulators on all of the driven elements and pushed her back up to 40 feet.

She now takes 1350 watts with no more smoke. We had a few wind gusts with some local tstorms last week, and the beam doesn't seem to move much at all.

that is all

Joe
KE9AI

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http://join.msn.com/?page=features/featuredemail

1599. Re: martha beam update

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-07 23:30:13 UTC
From: w4wb
Topic: 1598 Message: 1599

Tnx for the great report ... Smokin' Joe!
73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "John Doe" <dieselfumes63@h...>
wrote:
> Hi guys,
>
> Martha has been performing beautifully for the last three weeks
with one
> exception. I was tuning up on 20 meter and trying to squeeze a few
more
> watts out of the drake l4b and all of a sudden I see the reflected
power
> shoots way up. A visual of the antenna revealed that I melted the
nylon
> rope holding the 20 meter driven element.
>
> I drop the beam down, installed lexan insulators on all of the
driven
> elements and pushed her back up to 40 feet.
>
> She now takes 1350 watts with no more smoke. We had a few wind
gusts with
> some local tstorms last week, and the beam doesn't seem to move
much at all.
>
> that is all
>
> Joe
> KE9AI
>
> _____
> Add photos to your e-mail with MSN 8. Get 2 months FREE*.
> http://join.msn.com/?page=features/featuredemail

1600. Number 289 on the air...first impressions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-08 00:15:16 UTC
From: aa5charliehotel
Topic: 1600 Message: 1600

This post is rather long, but it may be of some use to those who are considering a Hex Beam. I know that I browsed through these posts before purchasing one.

HX5Bi Number 289 is in, and on the air! It is mounted on a 40 foot pushup mast and is guyed with 5/16" dacron rope at 20,30, and 40 feet. It is being turned with a Channel Master 9521 Rotator. There are 8 Amidon Type 77 ferrite chokes over the coax just below the hub plate of the antenna. The coax run (Belden 8214 RG8U) is approximately 180 feet. The antenna is approximately 40 feet from the house. A 160 meter off center fed doublet (OCFD) at 45 feet and a large tree are both within within 20-30 feet of the Hex Beam. A GAP Voyager (160/80/40/20m) is approximately 60 feet away. The first test was SWR...

1.5:1 or less SWR bandwidths(as measured with the Kenwood 950SDX internal meter):

28.000 - 29.000 Mhz *
24.890 - 24.990 Mhz
21.000 - 21.450 Mhz
18.068 - 18.168 Mhz
14.000 - 14.350 Mhz

* The SWR peaks at approximately 2:1 at 29.4, but dips to less than 1.5:1 at 29.600.

The autotuner in the 950 was able to quickly "tune" the antenna to 30 meters.

One has to be careful when comparing a beam with a long wire antenna such as the OCF Doublet because the doublet will have significant gain in its favored directions, and will perform rather poorly in its nulls. In other words, the antenna I am comparing to the Hex Beam is not a standard half wave dipole, which is a widely accepted reference for gain and performance comparisons. The performance of the GAP Voyager on 20 meters is dismal, so it can not be assumed to be representative of other commercial verticals. All that being said...

I didn't get a chance to play with the HexBeam until 2:00 AM Local time the other night. There was a station in Hawaii around 14.245 with a fair signal. I tuned up the doublet with the manual tuner and switched between the Voyager, the OCF Doublet, and the Hex Beam. The received signal strengths were:

Voyager S2-S3
OCFD S4-S5

Hex Beam S7-S8

I then compared received signal strengths of several stateside and DX stations in various directions. The relationship remained fairly consistent with the Hex Beam beating the Voyager 5-6 S units, and the OCFD 2-4 S units.

A more important test (at least to me):

One of the reasons I upgraded to the Hex Beam was because a friend in CA was having trouble hearing me on 20 and 17 meters, as he apparently was in one of the OCFD's nulls. The Voyager is pretty useless on 20 meters, so I often had to use the amp. High power, an antenna tuner, and open wire feedline in the shack is a recipe for RFI. I got tired of not being heard and fighting the RFI.

Last night on 20 meters I was in QSO with the friend in CA and a local ham that lives on the other side of town. The local guy was running 250 watts into a Cushcraft A3 at 50 feet. I was running 150 watts into the Hex Beam at 40 feet. The friend in CA reported that our signal strengths were virtually identical. I consider that a success. The antenna showed moderate front-to-back rejection, but seemed a little weak on front-to-side rejection. I didn't write down numbers as forward gain is my primary interest at this point. I may do some more detailed comparisons later. When band conditions improve a bit, I can also try it on the other bands...right now 15, 12, and 10 are pretty dead here.

The cost issue...

When I first opened the box, I was a bit dumbstruck at how little I received for roughly $900. After I had assembled the antenna, I concluded that, unless Traffie is making an obscene profit on these, the majority of the cost must be in labor. I was impressed with the quality of the components and assumed that it takes some time to cut the wires to the correct lengths, fabricate and/or attach the connectors, prepare the center support, drill the hub, etc. Apparently, several of the components of the Hex Beam are not manufactured or available in quantity, and must be assembled by Traffie.

One of the selling points for the Hex Beam is its relative low cost when compared to standard yagi/rotator/tower installation. There were some unique needs in my particular installation that others probably wouldn't have (such as setting 8 foot landscape timbers in cement for the guy posts...done to get the ropes away from the dog and make the installation more acceptable to the wife). My coax and rotator cable run is probably longer than most. I hired a local television antenna installer to come help with the final phase of pushing up the mast after I realized how heavy that last section would be and how inexperienced my friends and I were...the best $40 I spent. It took both of us standing on tall step ladders to push up and secure the

mast sections. The option of mounting the rotator on the ground bears looking into if you are considering the Hex Beam. The bottom line...it cost me approximately $1500 to purchase, ship, and install the Hex Beam and the related equipment. That is significantly less than installing a small crank up tower and a typical 5-band yagi, LPDA, or Quad, and somewhat less (I believe) than installing a few sections of 25G, an appropriate rotator, and one of the above antennas. It certainly is easier.

Another(?) bottom line... I wanted the best antenna I could support with a push up mast and turn with an inexpensive rotator. I am just not in the mood to put up a tower where I am right now. I wanted some forward gain on 20-10 meters and wanted to eliminate the hassle of manually tuning the doublet whenever I change frequency, the strange nulls in the doublet, and the RFI inherent in having open wire feeders to a non-resonant antenna in the shack. So far, it appears that all my goals have been achieved with the Hex Beam.

The Hex Beam is a very expensive antenna. Frankly, I think $500-$600 is a more reasonable price range for what you receive, and would be more competitive with the other two element mini-beams on the market. However I don't regret my purchase a bit and believe that in the long run, the antenna will continue to prove its value to me. I had considered a Cushcrat R8 vertical...a friend (who ridiculed me for spending $900 on the Hex Beam) purchased and installed an R8 for approximately $500. The SWR is not below 2:1 on any band and he cannot get any response from Cushcraft. I had a pleasant conversation with Mike Traffie when I placed my order and he gave me some tips on installation. I have no doubt that if I had trouble, he would do whatever he could to help me get it fixed, and there is the return policy...those "intangibles" are worth a lot to me.

Hope all this bandwidth was of some use....

73,

Brad Johnson
AA5CH

1601. 6 meters with a HF 5-band hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-11 05:14:08 UTC
From: ab0si
Topic: 1601 Message: 1601

After seeing some comments here about the 5Bi loading on 6 meters, I decided to give it a go. I started playing on 6 meters in mid-June and after a 3 week vacation in July I tried it again this weekend. I have no idea what, if anything, it proves, but I've managed to work 33 states and 79 grids from Minnesota (FN34) using 100 watts with the hex at 45 feet.

As far as I can tell, the hexbeam is almost completely unidirectional on 6 meters.

Any comments on installing a "real" 6-meter directional antenna about 8 feet under teh hexbeam?

Paul

1602. Re: [hex-beam] 6 meters with a HF 5-band hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-11 07:58:39 UTC
From: Eric Carling
Topic: 1601 Message: 1602

"As far as I can tell, the hexbeam is almost completely unidirectional on 6 meters".

Given that it probably exhibits gain of 0dbi or less on 6mtrs, yours being unidirectional must be something of a nuisance and I wonder if that is really what is happening. Mine for example is omnidirectional on 6m.

Eric.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: Monday, August 11, 2003 05:14:14
To: hex-beam@yahoogroups.com
Subject: [hex-beam] 6 meters with a HF 5-band hexbeam

After seeing some comments here about the 5Bi loading on 6 meters, I decided to give it a go. I started playing on 6 meters in mid-June and after a 3 week vacation in July I tried it again this weekend. I have no idea what, if anything, it proves, but I've managed to work 33 states and 79 grids from Minnesota (FN34) using 100 watts with the hex at 45 feet.

As far as I can tell, the hexbeam is almost completely unidirectional on 6 meters.

Any comments on installing a "real" 6-meter directional antenna about 8 feet under teh hexbeam?

Paul

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1603. Re: [hex-beam] 6 meters with a HF 5-band hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-11 11:46:34 UTC
From: n1ix@att.net
Topic: 1601 Message: 1603

I found that my 5bi loads on 6 meters but my 40 meter full wave loop works much better. I have worked a few Europeans (easy from the east coast) and a few states in the past week or so. I would also be interested in any comments about installing a "read" 6 meter beam under the hex.

Dave N1IX
> After seeing some comments here about the 5Bi loading on 6 meters, I
> decided to give it a go. I started playing on 6 meters in mid-June
> and after a 3 week vacation in July I tried it again this weekend. I
> have no idea what, if anything, it proves, but I've managed to work
> 33 states and 79 grids from Minnesota (FN34) using 100 watts with the
> hex at 45 feet.
>
> As far as I can tell, the hexbeam is almost completely unidirectional
> on 6 meters.
>
> Any comments on installing a "real" 6-meter directional antenna about
> 8 feet under teh hexbeam?
>
> Paul
>
>
>
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1604. Re: 6 meters with a HF 5-band hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-11 12:52:58 UTC
From: ab0si
Topic: 1601 Message: 1604

Ooops, temporary brain death here. I meant, of course,
OMNIdirectional.

Paul

--- In hex-beam@yahoogroups.com, "Eric Carling" <ericc@m...> wrote:
> "As far as I can tell, the hexbeam is almost completely
unidirectional
> on 6 meters".
>
> Given that it probably exhibits gain of 0dbi or less on 6mtrs,
yours being
> unidirectional must be something of a nuisance and I wonder if that
is
> really what is happening. Mine for example is omnidirectional on 6m.
>
> Eric.
>
>
> -------Original Message-------
>
> From: hex-beam@yahoogroups.com
> Date: Monday, August 11, 2003 05:14:14
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] 6 meters with a HF 5-band hexbeam
>
> After seeing some comments here about the 5Bi loading on 6 meters,
I
> decided to give it a go. I started playing on 6 meters in mid-June
> and after a 3 week vacation in July I tried it again this weekend.
I
> have no idea what, if anything, it proves, but I've managed to work
> 33 states and 79 grids from Minnesota (FN34) using 100 watts with
the
> hex at 45 feet.
>
> As far as I can tell, the hexbeam is almost completely
unidirectional
> on 6 meters.
>
> Any comments on installing a "real" 6-meter directional antenna
about
> 8 feet under teh hexbeam?
>
> Paul

>
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>
> [Non-text portions of this message have been removed]

1605. 17 meter hex beam plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-12 21:09:09 UTC
From: glockingham
Topic: 1605 Message: 1605

Hi all,

I like what I've been reading about hex beams and believe I have enough fiberglas rod and wire to build one. Of course I have to fabricate the mount. I was wondering if anyone had plans for a 17 meter version. Please email to me at kb9e@...

Thanks and 73'

Ron

1606. Re: [hex-beam] Re: Digest Number 353

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-13 04:52:24 UTC
From: Koos van Wyk
Topic: 1498 Message: 1606

Hi all HB users
I received your emails regarding the Hex Beam here in South Africa for the past 4 - 5 months and found in very interresting. The HB is not available as a buy here and I am considering building one. Please let me know where to get the plans with technical detail (or is that not "legal" ?) If I can only build a 10. 15 and 29 Mtrband model to start with. Fibre rods and the Hub is not a problem.
Regards
Koos van Wyk (ZS1KWV)
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Friday, June 20, 2003 4:56 AM
Subject: [hex-beam] Re: Digest Number 353

Hi Pete,

Traffie tunes them at about 43.5'. Take a look at the model and you will see that the elevation lobe splits. I have my HB (20 m elements) at about 38' and works fine (single lobe). When I had it at 56' for FD last year, I could easily detect the lobe spliting. Is it a real problem? Not really perhaps, but I suggest that you will find it to be better for most work to be at the 43' level. BTW, the model indicates that the third lobe (at 56') points up and a part of it even backwards a bit. Well, I made some NVIS contacts too in AL, MS, and TN (I'm located in north Alabama). ;-)
Remember that there is energy transmitted in each lobe, and energy received in each ... QRN/M potential.

73,
Barry - W4WB

-- In hex-beam@yahoogroups.com, "Meier, Peter H." <peter.meier@u...>
wrote:
> My tower is about 48 ft. so my Hex Beam sits at about 52 ft. Is
this really
> a problem for the patterns (being above 40 ft.) ??
>
> Pete WK8S
>
>
>
> ----------

>
> 1. Re: HXP and FD
> From: "wa2ntk" <wa2ntk@e...>

>

>
> Message: 1
> Date: Sun, 15 Jun 2003 14:23:52 -0400
> From: "wa2ntk" <wa2ntk@e...>
> Subject: Re: HXP and FD
>
> Rich, Seem between 35 and 40 feet will work just fine. Ralph WA2NTK
> rmko218@e...

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[Non-text portions of this message have been removed]

1607. want a real set of hex beam plans or drawing

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-13 15:07:54 UTC
From: dmwatkins20032002
Topic: 1607 Message: 1607

i find this antenna design to be a great one for my location have been building antennas since i have been a ham about 5 yrs. would like to build a dual band for ten meters and 6 mtrs. can anyone please e-mail me a set of plans or at least the formula for finding the lengths of the elements and or the spreaders. if this works out i will be happy to share with the group the results.

thanks one and all
73's mike kg4fsx

1608. Hexbeam VS Force12 C3

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-19 18:42:28 UTC
From: ZS1DX
Topic: 1608 Message: 1608

Hi Everyone,

I was fortunate to use a Hex-Pac beam on 20m and 15m this past weekend during the worldwide Lighthouse "party". I was very impressed with the extremely high construction quality. Unfortunately, the antenna was only elevated about 5 meters. A nearby radar installation caused a lot of QRM, while a huge beacon antenna was about 30 meters away. We still made contacts worldwide, and the Hexbeam certainly has potential, when installed at 12 meters.

I used DL7IO's models, and compared it to a C3 model from W4RNL. I was pleasantly surprised by the results, and posted them in the File section. (Hexbeam VS Force12 C3.pdf)

I'm no modeling pro HI, but am encouraged by the results.

Now, I only need to win the Lotto...

73 Chris ZS1DX

1609. WTB: HX-5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-25 20:04:45 UTC
From: Ken Hopper
Topic: 1609 Message: 1609

Anyone have a used HX-5bi that needs a new home?
Pse contact
Ken november nine vacuum variable at arrl dot net
TU de ken n9vv

1610. RE: [hex-beam] WTB: HX-5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-26 03:48:51 UTC
From: Greg Fischer
Topic: 1609 Message: 1610

Hi Ken. I saw one listed not too long ago I think. But you have to act fast on them. If I see another I will let you know. I have one here. Not as high as it should be, right now only at 30ft. But I am limited here. I am going to put a longer mast on it to get it at 35 which should help on 20m some.

It's not a great antenna as it's obviously a compromise system. But I do like that it has gain on all the bands it covers. I even tuned it up on 30 and 40m a few times and made some contacts with it.

K2 is coming along. Finished with the FP and control board and started the RF board. After a minor trouble shooting issue, all the first checks are fine.

Did you ever get to evaluate that tuning knob we talked about?

CUL
Greg
AB7R
-----Original Message-----
From: Ken Hopper [mailto:n9vv@...]
Sent: Monday, August 25, 2003 1:05 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] WTB: HX-5bi

Anyone have a used HX-5bi that needs a new home?
Pse contact
Ken november nine vacuum variable at arrl dot net
TU de ken n9vv

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[Non-text portions of this message have been removed]

1611. RE: [hex-beam] WTB: HX-5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-26 03:49:42 UTC
From: Greg Fischer
Topic: 1609 Message: 1611

Hey.... I'll trade you my 5bi for your StepIR... :)

-----Original Message-----
From: Ken Hopper [mailto:n9vv@...]
Sent: Monday, August 25, 2003 1:05 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] WTB: HX-5bi

Anyone have a used HX-5bi that needs a new home?
Pse contact
Ken november nine vacuum variable at arrl dot net
TU de ken n9vv

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[Non-text portions of this message have been removed]

1612. Re: [hex-beam] WTB: HX-5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-26 11:52:00 UTC
From: Jason Hissong
Topic: 1609 Message: 1612

On the SteppIR, the elements don't move back and forth. I know that spacing is important on a Yagi. So with the spacing not moving along with the elements, aren't you compromising with that antenna? Seems to me that spacing is what gives you your F/B ratio vs Gain. If my memory serves me correctly, closer elements give you more gain but less F/B. Whereas longer spacing gives you more F/B. (All withing a certain wavelength of course.) So the SteppIR must be great on 20M for gain but not as well as F/B where the higher bands are the opposite.

This is just me thinking out loud... I have to verify my statements..

See ya!

73
Jason
N8XE

Greg Fischer wrote:
> Hey.... I'll trade you my 5bi for your StepIR... :)
>

1613. Re: [hex-beam] WTB: HX-5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-26 12:52:29 UTC
From: Eric Carling
Topic: 1609 Message: 1613

Never having used one, I'm not in a position to proffer a view but see the FAQ section at www.steppir.com for their defense of fixed element spacing in the Steppir antennas. Generally though, nearly every average ham's hf antenna is a compromise in some fashion. I expect SteppIR users are universally delighted with performance just as all of us are delighted with the performance of our Hexbeams.

Eric G0CGL.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: Tuesday, August 26, 2003 11:52:12
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] WTB: HX-5bi

On the SteppIR, the elements don't move back and forth. I know that spacing is important on a Yagi. So with the spacing not moving along with the elements, aren't you compromising with that antenna? Seems to me that spacing is what gives you your F/B ratio vs Gain. If my memory serves me correctly, closer elements give you more gain but less F/B. Whereas longer spacing gives you more F/B. (All withing a certain wavelength of course.) So the SteppIR must be great on 20M for gain but not as well as F/B where the higher bands are the opposite.

This is just me thinking out loud... I have to verify my statements..

See ya!

73
Jason
N8XE

Greg Fischer wrote:
> Hey.... I'll trade you my 5bi for your StepIR... :)
>

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[Non-text portions of this message have been removed]

1614. Re: [hex-beam] WTB: HX-5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-26 22:34:08 UTC
From: Jason Hissong
Topic: 1609 Message: 1614

Very true! As you mention, they are all compromises and one antenna is probably not the best in all situations. For me, having the SteppIR would be an awesome thing... however, I do not have the tower or rotor for it. So the Hexbeam fit my needs very well.

Lately, I am finding that the difference in signal to be pretty darn good. I only have my S meter to use, but I am finding a jump between S6 to S9 from the dipole to the Hexbeam (broadside to the dipole). And side to side is even better. Front to back is about what the models say.

Still glad I went with my Hexbeam. I am sure that a Quad would do just as well (but bigger).

See ya!

73
Jason
N8XE

Eric Carling wrote:
> Never having used one, I'm not in a position to proffer a view but see the
> FAQ section at www.steppir.com for their defense of fixed element spacing in
> the Steppir antennas. Generally though, nearly every average ham's hf
> antenna is a compromise in some fashion. I expect SteppIR users are
> universally delighted with performance just as all of us are delighted with
> the performance of our Hexbeams.
>
> Eric G0CGL.
>
>
>

1615. MOXON Antenna Project

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-27 19:27:04 UTC
From: Don Snodgrass
Topic: 1615 Message: 1615

Hello all...

I realize that this newsgroup is for HexBeam enthusiasts. However, since some members of the group like to home brew, I thought that I'd invite those interested to visit http://campus.murraystate.edu/org/msuarc/moxon/index.htm which showcases the ongoing efforts of a group of hams who are experimenting with home brewing 17 meter MOXON antennas. The next phase of our project will be to add 20 meters to the antenna with a common feed point. A 40 meter version is also in the works.

Best wishes,

Don

K4QKY

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Don Snodgrass
1624 Tabard Drive
Murray, KY 42071
270-767-9944

http://webpages.charter.net/donsno
donsno@...

<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

[Non-text portions of this message have been removed]

1616. Re: MOXON Antenna Project

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-28 04:30:05 UTC
From: rowsculls
Topic: 1615 Message: 1616

Very nice site! The compendium of links is excellent as well. A great resource!

Dan
KØAST

1617. Antenna Noise

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-30 21:29:15 UTC
From: wa2aae
Topic: 1617 Message: 1617

I just completed my Hex Beam and have only the 20 mtr elements installed. I was anxious to see how it worked before I put all the elements on. One thing I have noticed is that there is a lot more background noise with the hex than with my inverted V. The hex is only at 15 feet, with the inverted V apex at 35 feet. This could be the reason for the difference. Just wondering if any one else noticed this characteristic?

1618. Question on Mounting 5 band Hex band

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-31 03:45:42 UTC
From: Russ Newton
Topic: 1618 Message: 1618

Has any mounted a 5 band Hex Beam on the 30 foot push up mast using a roof mount on a cement slab (ground level)? Russ K1LRB

1619. Re: [hex-beam] Antenna Noise

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-31 13:24:38 UTC
From: IslPilot@aol.com
Topic: 1617 Message: 1619

My Hex is much quieter than my wire antennas. How does the rcvd signal performance compare? Normally I am 3-4 S units over my 80M horizontal loop at 65'.

Good Luck and Enjoy,

Paul
KB8VWV

[Non-text portions of this message have been removed]

1620. Re: Antenna Noise

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-08-31 21:36:12 UTC
From: w4wb
Topic: 1617 Message: 1620

--- In hex-beam@yahoogroups.com, "wa2aae" <wa2aae@y...> wrote:
> I just completed my Hex Beam and have only the 20 mtr elements
> installed. I was anxious to see how it worked before I put all the
> elements on. One thing I have noticed is that there is a lot more
> background noise with the hex than with my inverted V. The hex is
> only at 15 feet, with the inverted V apex at 35 feet. This could be
> the reason for the difference. Just wondering if any one else
noticed
> this characteristic?

It may be due to the fact that you are suppose to install all of the
elements (assuming you have a HX-5B) before you use it. This is due
to the fact that the elements interact with each other an influence
the impedance. Have you checked the antenna impedance with an
analyzer? Best bet is to spend the next 30 mnutes and put on the
other elements!

Have fun!
Barry - W4WB

1621. Re: [hex-beam] Question on Mounting 5 band Hex band

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-01 05:32:01 UTC
From: W. Deloach
Topic: 1618 Message: 1621

Russ, This is Bill, K4QCD, in Savannah, Ga.

My 5 band beam is on a homemade 33 ft. push mast. The rotator (Yaesu G-450A) is on a ground mounted, treated wood pad and the mast is supported by the house eave with a bearing and one level of Dacron rope guide wires. All but the electrical elements have been painted dark green and black making the system very hard to see against the tree line behind it. I stand on the roof and push the ant. up, with the help of a friend. The system has been flawless since installed in the fall of last year.

Performance has exceeded my expectations.

Good luck and good dx,

73 Bill K4QCD

----- Original Message -----
From: "Russ Newton" <russell.newton@...>
To: <hex-beam@yahoogroups.com>
Sent: Saturday, August 30, 2003 11:45 PM
Subject: [hex-beam] Question on Mounting 5 band Hex band

> Has any mounted a 5 band Hex Beam on the 30 foot push up mast using a roof
> mount on a cement slab (ground level)? Russ K1LRB
>
>
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1622. Re: [hex-beam] Antenna Noise

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-01 04:25:31 UTC
From: Jason Hissong
Topic: 1617 Message: 1622

I noticed more noise on my antenna as well... however, I found that it was from the power poles behind my house and the Hexbeam was picking it up better!! (because of gain that I have never had before.) In fact, when I rotate the Hexbeam due north (where the lines are) I get the RFI. My inverted V is perpendicular to the power lines so it was quieter. When the Hexbeam is pointing east or west, the noise is lowered (but not completely gone away).

I would put the other elements on and see what happens.

BTW... I just worked a new country with my HB... JT1CO. I just love my Hexbeam!!

Let us know if any changes occur when you put the other elements on...

73!!

Jason Hissong
N8XE
http://www.qsl.net/n8xe

wa2aae wrote:
> I just completed my Hex Beam and have only the 20 mtr elements
> installed. I was anxious to see how it worked before I put all the
> elements on. One thing I have noticed is that there is a lot more
> background noise with the hex than with my inverted V. The hex is
> only at 15 feet, with the inverted V apex at 35 feet. This could be
> the reason for the difference. Just wondering if any one else noticed
> this characteristic?
>
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1623. Re: Antenna Noise

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-01 12:52:28 UTC
From: wa2aae
Topic: 1617 Message: 1623

--- In hex-beam@yahoogroups.com, Jason Hissong <jhisson1@c...> wrote:
> I noticed more noise on my antenna as well... however, I found that
it
> was from the power poles behind my house and the Hexbeam was
picking it
> up better!! (because of gain that I have never had before.) In
fact,
> when I rotate the Hexbeam due north (where the lines are) I get the
RFI.
> My inverted V is perpendicular to the power lines so it was
quieter.
> When the Hexbeam is pointing east or west, the noise is lowered
(but
> not completely gone away).
>
> I would put the other elements on and see what happens.
>
> BTW... I just worked a new country with my HB... JT1CO. I just
love my
> Hexbeam!!
>
> Let us know if any changes occur when you put the other elements
on...
>
> 73!!
>
> Jason Hissong
> N8XE
> http://www.qsl.net/n8xe

The antenna does resonate on 20 Mtrs with a reasonable SWR (2:1). I did check the impedance with an anaylzer and found that the impedance is on the low side, closer to 30 ohms. I guess the noise might just be the location with the power lines in the back yard at the same height the antenna.

I started to added the other elements, but one of the the spreaders I'm using (a Cabella Crappie fishing pole)cracked as I was tightening a hose clamp to hold the 10 mtr element. I stuffed dowels in it for a temporary fix and I am going to order fiberglass rod with a thicker wall.

Thanks.....Harvey - WA2AAE

1624. Re: Antenna Noise

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-01 12:50:43 UTC
From: wa2aae
Topic: 1617 Message: 1624

```
>
> It may be due to the fact that you are suppose to install all of
the
> elements (assuming you have a HX-5B) before you use it. This is
due
> to the fact that the elements interact with each other an influence
> the impedance. Have you checked the antenna impedance with an
> analyzer? Best bet is to spend the next 30 mnutes and put on the
> other elements!
>
> Have fun!
> Barry - W4WB
```

The antenna does resonate on 20 Mtrs with a reasonable SWR (2:1). I did check the impedance with an anaylzer and found that the impedance is on the low side, closer to 30 ohms. I guess the noise might just be the location with the power lines in the back yard at the same height the antenna.

I started to added the other elements, but one of the the spreaders I'm using (a Cabella Crappie fishing pole)cracked as I was tightening a hose clamp to hold the 10 mtr element. I stuffed dowels in it for a temporary fix and I am going to order fiberglass rod with a thicker wall.

Thanks.....Harvey - WA2AAE

1625. Re: [hex-beam] Re: Antenna Noise

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-01 13:14:39 UTC
From: Jim Isbell
Topic: 1617 Message: 1625

I haven't done this, but will be trying it when I begin building a "spider beam" later this year. But I think a good way to avoid the cracked poles is to make sure the interior is filled completely with a TAPERED insert, not a round insert that wont support all the wall. What I intend to try is stuffing a paper tower about 8" down the interior of the pole then pouring in enough epoxy filler (auto body stuff) to fill the butt of the pole. When that hardens it should give a perfect support for the walls of the pole.

wa2aae wrote:

>I started to added the other elements, but one of the the spreaders
>I'm using (a Cabella Crappie fishing pole)cracked as I was tightening
>a hose clamp to hold the 10 mtr element. I stuffed dowels in it for a
>temporary fix and I am going to order fiberglass rod with a thicker
>wall.
>
>

1626. hexpack for sale

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-01 21:07:14 UTC
From: t_ashland
Topic: 1626 Message: 1626

Hi,
I came across a listing on Burghardt Amateur website listing the following:
HEXBEAM(HEXPACK) QRP 6,10,12,17,20 METER PORTABLE 449.95

The site is www.burghardt-amateur.com and go to the used section. I do not work for Burghardt-Amateur, but just a satisfied customer. In fact I bought my hexbeam from them. Act fast,it may go fast.

73,
Terry, WK0F

1627. Re: [hex-beam] Re: Antenna Noise

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-01 22:27:54 UTC
From: Harvey Mandell
Topic: 1617 Message: 1627

I've order fiberglass rod (1/2 inch) to resolve the
problem. The fishing rod walls were about 1/32 inch
thick and obviously not strong enough. I tried to save
some money not being sure if the beam would work, but
in retrospect should have spent a few more bucks
initially and bought the fiberglass material. It did
not cost that much more.

Harvey----WA2AAE

--- Jim Isbell <millenniumfalcon@...> wrote:
> I haven't done this, but will be trying it when I
> begin building a
> "spider beam" later this year. But I think a good
> way to avoid the
> cracked poles is to make sure the interior is filled
> completely with a
> TAPERED insert, not a round insert that wont support
> all the wall. What
> I intend to try is stuffing a paper tower about 8"
> down the interior of
> the pole then pouring in enough epoxy filler (auto
> body stuff) to fill
> the butt of the pole. When that hardens it should
> give a perfect
> support for the walls of the pole.

_____
Do you Yahoo!?
Yahoo! SiteBuilder - Free, easy-to-use web site design software
http://sitebuilder.yahoo.com

1628. CobWebb

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-02 18:44:50 UTC
From: P. Buijserd
Topic: 1628 Message: 1628

hello all,
my brother is going to put up a CobWebb antenna. never heard of it, but on first view it has some nice design characteristics, which may make it a less expensive alternative to the hexbeam.
http://www.g3tpw.ukgateway.net/
by the way, the hexbeam is up and alive. last week I worked #280 (V6, Micronesia).
73, Peter PB1TT

1629. Re: [hex-beam] CobWebb

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-02 22:02:00 UTC
From: htankin@comcast.net
Topic: 1628 Message: 1629

The CobWebb is a multiband, dipole antenna made in the UK. I recall it supports 20m-10m with each dipole bent into a rectangle. This is an omni-directional antenna, not a beam. I've worked several hams in the UK using the CobWebb and all liked the antenna and said they performed as dipoles.

Harry WE1X
> hello all,
> my brother is going to put up a CobWebb antenna. never heard of it, but on
> first view it has some nice design characteristics, which may make it a less
> expensive alternative to the hexbeam.
> http://www.g3tpw.ukgateway.net/
> by the way, the hexbeam is up and alive. last week I worked #280 (V6,
> Micronesia).
> 73, Peter PB1TT
>
>
>
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>
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>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
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>

1630. Re: [hex-beam] CobWebb

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-02 23:35:32 UTC
From: richy
Topic: 1628 Message: 1630

The cobweb is dipoles from 20 mtr - 10 mtr on an X frame, it is horizontally
polarised. I have been using one at about 27 feet for 2 years and am happy with it,
It is 8 feet square and looks very small in the air. 20 mtr performance is far superior
to my R5 vertical but as you go up in frequency the recieve signals seem to drop, I
can still hear more on the cobweb than the R5 on all bands 20-10 but the signal meter
readings are less, on 10 meters I rarely get any signal readings at all but still hear
everything the R5 can hear, I am not sure if this is because of the horizontal polarisation
of the cobweb

I was hoping to make a hexbeam sometime this summer but never seem to find
the time :-(

When I do get around to the hexbeam project I will post some comparisons between the
cobweb and the Hex, I am of course expecting the Hex to outperform the cobweb due to
it's directional nature.

I plan to have the Hexbeam about 3 metres above the cobweb so I am hoping the cobweb
will not detune the Hexbeam.

Have Fun
Dick m0clz

----- Original Message -----
From: <htankin@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, September 02, 2003 11:02 PM
Subject: Re: [hex-beam] CobWebb

> The CobWebb is a multiband, dipole antenna made in the UK. I recall it
> supports 20m-10m with each dipole bent into a rectangle. This is an omni-
> directional antenna, not a beam. I've worked several hams in the UK using the
> CobWebb and all liked the antenna and said they performed as dipoles.
>
> Harry WE1X
> > hello all,

> > my brother is going to put up a CobWebb antenna. never heard of it, but
on
> > first view it has some nice design characteristics, which may make it a
less
> > expensive alternative to the hexbeam.
> > http://www.g3tpw.ukgateway.net/
> > by the way, the hexbeam is up and alive. last week I worked #280 (V6,
> > Micronesia).
> > 73, Peter PB1TT
> >

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.512 / Virus Database: 309 - Release Date: 8/19/03

1631. Re: Question to Bill about the homebrew HexBeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-02 12:59:24 UTC
From: Gary Pritchard
Topic: 1618 Message: 1631

Greetings Bill; I am N5YWJ and near Dallas. I am in
the process of building a homebrew Hex Beam for
10/15/20. Did you follow any particular set of
instructions or create your own design? I have not
finalized a decision on what to you for the
flexible/bowed supports. What did you use?
Thanks, Gary Pritchard

--- "W. Deloach" <k4qcd@...> wrote:
> Russ, This is Bill, K4QCD, in Savannah, Ga.
>
> My 5 band beam is on a homemade 33 ft. push mast.
> The rotator (Yaesu G-450A)
> is on a ground mounted, treated wood pad and the
> mast is supported by the
> house eave with a bearing and one level of Dacron
> rope guide wires. All but
> the electrical elements have been painted dark green
> and black making the
> system very hard to see against the tree line behind
> it. I stand on the
> roof and push the ant. up, with the help of a
> friend. The system has been
> flawless since installed in the fall of last year.
>
> Performance has exceeded my expectations.
>
> Good luck and good dx,
>
> 73 Bill K4QCD
>
>
> ----- Original Message -----
> From: "Russ Newton" <russell.newton@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Saturday, August 30, 2003 11:45 PM
> Subject: [hex-beam] Question on Mounting 5 band Hex
> band
>
>
> > Has any mounted a 5 band Hex Beam on the 30 foot
> push up mast using a roof
> > mount on a cement slab (ground level)? Russ
> K1LRB
> >

> >
> >
> >
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1632. HELP! HX5B for 2.4GHz?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-03 17:22:19 UTC
From: bigjuniorfan
Topic: 1632 Message: 1632

Hello! I am new to the group and I know nothing about this stuff. My Dad bought a Hexbeam HX5B-024 antenna in 2000 and he has since passed away. I have had some inquiries from locals about the buying the antenna. I was asked if this antenna is capable of wireless internet on the 2.4Ghz frequency - does anyone know the answer to this?

I would greatly appreciate any input.

Thanks!
Merri-Ann

1633. Re: [hex-beam] Digest Number 396

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-02 18:01:03 UTC
From: Dirk
Topic: 1633 Message: 1633

hi all, while i dont have a hex beam and havent used a beam in a number of years, you should never have a beam antenna mounted at the same height of any power lines. whatis happening is, most of your radiated power is being absorb ed in the wires and they are changing the direction of your signal. just look in any antenna book about this. if at all possible mount the beam below the power lines or above them while youmstill may hear some noise tho, at least you will not be wasting all your precipus power in those wires, i just thought that you just might like to know. 73 all dirk ka2zbt

1634. Re: [hex-beam] HELP! HX5B for 2.4GHz?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-04 11:03:37 UTC
From: Jason Hissong
Topic: 1632 Message: 1634

Hi Merri-Ann,

Sorry to hear about your dad. About the Hexbeam, it is not designed to provide the ability to use it on 2.4Ghz. It would be far easier (and cheaper) to build one. I think the impedence mismatch would cause a lot of signal loss. Others may want to comment on it.

While you can hook up a wireless Internet router to the Hexbeam, it would not be a very good performer. You may even be able to get your 2.4 Ghz signal out farther only by virtue of it being higher.

Anyways, good luck.

Jason Hissong
N8XE

bigjuniorfan wrote:
> Hello! I am new to the group and I know nothing about this stuff.
> My Dad bought a Hexbeam HX5B-024 antenna in 2000 and he has since
> passed away. I have had some inquiries from locals about the buying
> the antenna. I was asked if this antenna is capable of wireless
> internet on the 2.4Ghz frequency - does anyone know the answer to
> this?
>
> I would greatly appreciate any input.
>
> Thanks!
> Merri-Ann
>
>
>
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> <http://rd.yahoo.com/M=259395.3614674.4902533.1261774/D=egroupweb/S=1705063108:HM/A=1524963/R=0/SIG=12o885gmo/*http://hits.411web.com/cgi-bin/autoredir?camp=556&lineid=3614674&prop=egroupweb&pos=HM>
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--
Jason Hissong
http://www.qsl.net/n8xe
http://www.mp3.com/jasonhissong

1635. Re: HELP! HX5B for 2.4GHz?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-05 05:08:18 UTC
From: w4wb
Topic: 1632 Message: 1635

The antenna is for 10, 12, 15, 17, and 20 meters (HF spectrum) and not for 2.4 GHz. I expect that you are planning on selling it, so ask about $400-$500 if in good condition and is up in the air. If it is still boxed, ask $600.

Regards,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "bigjuniorfan" <bigjuniorfan@y...> wrote:
> Hello! I am new to the group and I know nothing about this stuff.
> My Dad bought a Hexbeam HX5B-024 antenna in 2000 and he has since
> passed away. I have had some inquiries from locals about the buying
> the antenna. I was asked if this antenna is capable of wireless
> internet on the 2.4Ghz frequency - does anyone know the answer to
> this?
>
> I would greatly appreciate any input.
>
> Thanks!
> Merri-Ann

1636. Re: [hex-beam] Re: Question to Bill about the homebrew HexBeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-06 01:24:13 UTC
From: W. Deloach
Topic: 1618 Message: 1636

Goodafternoon Gary, sorry to mislead you but all that is homemade is the push up mast!!! The Hex Beam--5 bander is "Store Bought". If I were to try to build one I think I would start with a monobander first and develop a construction method. Good luck and keep us posted!

Bill K4QCD, Savannah, Ga.

From: Gary Pritchard
To: hex-beam@yahoogroups.com
Sent: Tuesday, September 02, 2003 8:59 AM
Subject: [hex-beam] Re: Question to Bill about the homebrew HexBeam

Greetings Bill; I am N5YWJ and near Dallas. I am in
the process of building a homebrew Hex Beam for
10/15/20. Did you follow any particular set of
instructions or create your own design? I have not
finalized a decision on what to you for the
flexible/bowed supports. What did you use?
Thanks, Gary Pritchard

--- "W. Deloach" <k4qcd@...> wrote:
> Russ, This is Bill, K4QCD, in Savannah, Ga.
>
> My 5 band beam is on a homemade 33 ft. push mast.
> The rotator (Yaesu G-450A)
> is on a ground mounted, treated wood pad and the
> mast is supported by the
> house eave with a bearing and one level of Dacron
> rope guide wires. All but
> the electrical elements have been painted dark green
> and black making the
> system very hard to see against the tree line behind
> it. I stand on the
> roof and push the ant. up, with the help of a
> friend. The system has been
> flawless since installed in the fall of last year.
>
> Performance has exceeded my expectations.
>
> Good luck and good dx,
>
> 73 Bill K4QCD
>
>
> ----- Original Message -----
> From: "Russ Newton" <russell.newton@...>

> To: <hex-beam@yahoogroups.com>
> Sent: Saturday, August 30, 2003 11:45 PM
> Subject: [hex-beam] Question on Mounting 5 band Hex
> band
>
>
> > Has any mounted a 5 band Hex Beam on the 30 foot
> push up mast using a roof
> > mount on a cement slab (ground level)? Russ
> K1LRB
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[Non-text portions of this message have been removed]

1637. dimensions of the spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-10 03:49:19 UTC
From: xe1fze1
Topic: 1637 Message: 1637

Hi to all, as many people in this group i try to make a homebrew version of the hex5b, i just download the files of dl7io and ve3ask but i dont found how long would be the spreaders, and i like to know the distance in the spreader for locate the different dipoles in the antenna.
I hope anybody can help me
sorry for my bad english
Humberto
XE1FZE

1638. Hex-beam mounting

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-09 19:30:54 UTC
From: Robert L Huberty
Topic: 1638 Message: 1638

Hex-beam builders,

I would like to mount the rotor as close to the ground as possible. Somewhere I saw a picture of a mounting with the guide wires just below the beam and the rotor mounted at the base. Can one purchase special guide bearings that will allow the mast to turn from below. I would appreciate any help on my problem. Thanks.

KD9UC
Bob

[Non-text portions of this message have been removed]

1639. Re: dimensions of the spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-10 10:13:41 UTC
From: wa2aae
Topic: 1637 Message: 1639

--- In hex-beam@yahoogroups.com, "xe1fze1" <xe1fze1@y...> wrote:
> Hi to all, as many people in this group i try to make a homebrew
> version of the hex5b, i just download the files of dl7io and ve3ask
> but i dont found how long would be the spreaders, and i like to
know
> the distance in the spreader for locate the different dipoles in
the
> antenna.
> I hope anybody can help me
> sorry for my bad english
> Humberto
> XE1FZE

The spreaders I used are 10 feet long, made up of sections of fiberglass that telescope together. Max-Gax Systems sells the material I used. The 20 mtr elements are about 1 inch in from the end of the spreaders, and the other elements are adjusted to fit with the hex frame.

Harvey.....WA2AAE

1640. 50Mhz (6M)

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-10 14:56:03 UTC
From: wa2ntk
Topic: 1640 Message: 1640

I'm toying with the idae of a six meter hexbeam because it's small footprint is very attractive. I have the material to fabricate the mount and fiberglass arrow shafts. Has anyone tired a HB for 6M and what success did you have. What is the element length used? Any info would be appreciated. Getting a new knee on October 31st and won't be able to climb the tower for a while. So I'm anxious to get started. Thanks Ralph WA2NTK 73

1641. Re: tower install

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-10 20:40:41 UTC
From: gfts4u
Topic: 886 Message: 1641

--- In hex-beam@yahoogroups.com, "gfts4u" <gfts4u@...> wrote:
> have another question. i have a tower with a hazer on it. will the
> hex beam clear the hazer or are there too many wires. it looks like
> it might clear it. please advise me. thanks 73 rich.

1642. trying to make a hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-18 12:56:53 UTC
From: andy
Topic: 1642 Message: 1642

hi every one,,iv seem this hex-beam on the net and thinking of
trying to make one..i wont it to cover a few bands from say 10
meters to 40 meters or even to 80 meters(i dont know if this is
possible...
can any one point me in the right direction or pleaze tell me a good
site to get the info from ...need the plans please
thanks all the best to every one that has read this 73,s

1643. Hex-Beam in the News (sort of anyway)

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-21 22:54:12 UTC
From: w4wb
Topic: 1643 Message: 1643

Take a look at the bottom of page 48 in the October issue of QST.
73,
Barry - W4WB

1644. hex beam plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-21 23:23:27 UTC
From: andy
Topic: 1644 Message: 1644

hummmm.can any body help with the plans od size of the home made hex bean ..i would like it to do 10-40 meters ...
iv look in the post on here and just came up with a headack..
need the plans where to put the wire ,,what way to put it,,where to stop and all so the poles are for the size beam .....
ok thanks for any help from any one

all the best andy 73,s

1645. Re: hex beam plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-22 09:34:55 UTC
From: David Douglass
Topic: 1644 Message: 1645

Andy,

To the best of my knowledge noboby has attempted a 10-40M antenna. I would imagine the interactions between elements would make it unmanigable, even if you could get over the physical design headaches of such a beast.

I would recommend you start with a 5-band antenna, for which there are well documented designs on the Group. Good luck, but I won't hold my breath waiting for your designs!!

Best Regards

David, VK2DPD/M0DPD

1646. Re: [hex-beam] Hex-Beam in the News (sort of anyway)

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-22 11:11:42 UTC
From: Jason Hissong
Topic: 1643 Message: 1646

Yea, I saw that too! Go HEXBEAM!

Looking forward to using it this year at SS.

73
Jason

w4wb wrote:
> Take a look at the bottom of page 48 in the October issue of QST.
> 73,
> Barry - W4WB
>
>
> *Yahoo! Groups Sponsor*
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>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
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> <http://docs.yahoo.com/info/terms/>.

--
Jason Hissong
http://www.qsl.net/n8xe
http://www.mp3.com/jasonhissong

1647. Re: Antenna Noise

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-22 05:23:26 UTC
From: ralple
Topic: 1617 Message: 1647

--- In hex-beam@yahoogroups.com, Jim Isbell <millenniumfalcon@c...>
wrote:
a good way to avoid the
> cracked poles ...
> I intend to try is stuffing a paper ... epoxy filler (auto body
stuff) to fill
> the butt of the pole.

>>(a Cabella Crappie fishing pole)cracked ...

I'm new to ham. I don't know if this has been mentioned. Just trying
to be helpfull. ...

Fishing rods should have a strong and weak side. The direction the
fishing line will pull on the rod should be the strong side. The
weaker side will give you tension with less chance of breaking the
rod. If you have a blank. You can find the strong side by rolling
the rod against the edge of a table while the butt is on the floor.
You do this while pushing a little on the rod for tension. The rod
will want to "settle" on the weak side.

I would like to mention. If you want fiberglass rod blank that is
very strong. Try a "Cal Star" fishing rod blank. You would be amazed
at how much bend these will take without breaking. I think this
stuff could take ice. They are guaranteed I think for life. I
wouldn't be surprised, if you called Cal Star and asked, that they
would guarantee them for usage on a hex-beam or quad. The longest I
see on a website (just looked) is only ten feet...I thought I had
seen longer. Also, for this use in antennas. If someone who knew
what he was talking about (not me) were to call Cal Star....He might
be interested in making blanks for this use? Or at least advising
for the best blanks....I'm still sure I've seen longer than 10 feet
from Cal Star.

The method they use for attaching eyelets to fishing rods is
actually extremely good. By this, I mean by wrapping thick thread
around the rod. They do double, and tripple wraps commonly. Usually,
one wrap set is under the eyelet. Then the others are over the
eyelet to hold it's feet on the rod. This actually increases the
strength of the rod instead of weakening it at that point. I think
it would be a great way to attach anchors for antenna wire.

I'm just trying to help here. Maybe good suggestions? Maybe
overkill? I hope this helps out?

RonP

1648. Re: hex beam plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-22 17:47:44 UTC
From: w4wb
Topic: 1644 Message: 1648

I am aware that Traffie attempted a 30 & 40 m HB and found it to be not viable. Same was true for adding about any other band with the 40 m HB. In addition, adding 6 m to the HX-5Bi was found not to work adequately ... degraded performance too much. A good guideline to see if bands will work together is to look on www.hexbeam.com and see what combinations Traffie offers.

Although I am planning to put up a 40 m Hex-Beam in a few months, I would really like to have a 30 & 40 m HB. Not possible however.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "David Douglass"
<david.douglass@o...> wrote:
> Andy,
>
> To the best of my knowledge noboby has attempted a 10-40M antenna.
I would
> imagine the interactions between elements would make it
unmanigable, even if
> you could get over the physical design headaches of such a beast.
>
> I would recommend you start with a 5-band antenna, for which there
are well
> documented designs on the Group. Good luck, but I won't hold my
breath
> waiting for your designs!!
>
> Best Regards
>
> David, VK2DPD/M0DPD

1649. Re: hex beam plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-22 22:02:32 UTC
From: k1mzg
Topic: 1644 Message: 1649

Could you expand on why the 30-40m mulitband hexband is not viable?

Thanks,

Michael Doherty - kd5wby

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> I am aware that Traffie attempted a 30 & 40 m HB and found it to be
> not viable. Same was true for adding about any other band with the
> 40 m HB. In addition, adding 6 m to the HX-5Bi was found not to work
> adequately ... degraded performance too much. A good guideline to
> see if bands will work together is to look on www.hexbeam.com and see
> what combinations Traffie offers.
>
> Although I am planning to put up a 40 m Hex-Beam in a few months, I
> would really like to have a 30 & 40 m HB. Not possible however.
>
> 73,
> Barry - W4WB
>
>
> --- In hex-beam@yahoogroups.com, "David Douglass"
> <david.douglass@o...> wrote:
> > Andy,
> >
> > To the best of my knowledge noboby has attempted a 10-40M antenna.
> I would
> > imagine the interactions between elements would make it
> unmanigable, even if
> > you could get over the physical design headaches of such a beast.
> >
> > I would recommend you start with a 5-band antenna, for which there
> are well
> > documented designs on the Group. Good luck, but I won't hold my
> breath
> > waiting for your designs!!
> >
> > Best Regards
> >
> > David, VK2DPD/M0DPD

1650. Graphite and Fiberglass

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-22 22:14:36 UTC
From: ralple
Topic: 1650 Message: 1650

Again, I don't know if this has been mentioned. I've just started looking at hex-beams, so I don't know all of what is out there on info.

Graphite won't take much abuse. Yes, it is nice because it's light. But good fishermen quit using graphite Salt Water rods because they couldn't take the abuse. In Salt Water, fishing rods get banged around alot. Graphite, when hit against something, chips easily. Then, where that chip occured, it will break more easily.

They do make a combination graphite and fiberglass blank. I think it is more for selling something to fishermen than performance.

The light yellow colored fiberglass isn't as good as the dark caramel/brown colored. You'll see the light yellow in Sabre, and some others. Also Seeker is kinda closer to the light yellow than the darker caramel color. Then they can add color to make these black...can't tell much by the color at that point.

From what I've seen at the Max-Gain site. It appears they have antennas pretty well covered? Looks like they're trying to keep the fiberglass light weight while performing. I think these rod blanks will be heavier. So, personally, I might only look at the Cal Star rod blanks for abusive environments where the light weight might have a problem.

I hope my comments are constructive to others?

RonP

1651. Max-Gain Fiberglass spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-22 22:38:31 UTC
From: dsimmons1999
Topic: 1651 Message: 1651

Adding to the spreader discussion, I just received an order from Max-Gain (http://www.mgs4u.com/fiberg.htm) for the spreaders on my homebrew hex-beam.

I ordered the following 8' pieces:

```
QTY Size Type
--- ---- ----
3 3/4" tube
3 1/2" tube
3 1/4" solid rod
```

Since UPS cost for 8' packages is really expensive, Max-Gain will cut the 3 pieces in half and then you have 6 of everything, avoiding the shipping surcharge. Be sure to ask them to sleve the tubes before cutting; that way you pay for 3 cuts instead of 9. The whole set was a bit over $70 shipped to the west coast.

The material seems pretty strong. These are definitely heavier than fishing pole blanks and should be more durable.

The only thing I'm concerned about is that the 1/4" rod is much more flexible than the larger tubes. If I pull up on the tip of a 11' assembly, the end thinnest piece does almost all the flexing, which is totally understandable. I'm planning on using a few spacers so the tubes are pointing up slightly and this should put the spreaders in about the right place for the wire junctions on the higher frequency bands. In other words, I'm still sorting out the geometry and base mounting.

Allen Bond at Max-Gain mentioned that he gets about a call per week asking about hex-beam spreaders and thinks this would be the best setup.

- Dave
KQ6RL

Usual disclaimers: no relationship with Max-Gain, just a customer.

1652. Re: hex beam plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-22 23:00:04 UTC
From: w4wb
Topic: 1644 Message: 1652

--- In hex-beam@yahoogroups.com, "k1mzg" <k1mzg@a...> wrote:
> Could you expand on why the 30-40m mulitband hexband is not viable?
>
> Thanks,
>
> Michael Doherty - kd5wby
>

Simple put, there is too much coupling due to the elements being
close together and their relative frequency. Gain and F/B were
adversely affected.

73,
Barry - W4WB

1653. Re: Max-Gain Fiberglass spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-23 10:08:36 UTC
From: wa2aae
Topic: 1651 Message: 1653

I went with Max-Gain also and used 6 3/4 tubes and 6 1/2 rods. Makes
a sturdy antenna.

Harvey.....WA2AAE

-- In hex-beam@yahoogroups.com, "dsimmons1999" <dsimmons@m...> wrote:
> Adding to the spreader discussion, I just received an order from
Max-
> Gain (http://www.mgs4u.com/fiberg.htm) for the spreaders on my
> homebrew hex-beam.
>
> I ordered the following 8' pieces:
>
> QTY Size Type
> --- ---- ----
> 3 3/4" tube
> 3 1/2" tube
> 3 1/4" solid rod
>
> Since UPS cost for 8' packages is really expensive, Max-Gain will
cut
> the 3 pieces in half and then you have 6 of everything, avoiding
the
> shipping surcharge. Be sure to ask them to sleve the tubes before
> cutting; that way you pay for 3 cuts instead of 9. The whole set
was
> a bit over $70 shipped to the west coast.
>
> The material seems pretty strong. These are definitely heavier
than
> fishing pole blanks and should be more durable.
>
> The only thing I'm concerned about is that the 1/4" rod is much
more
> flexible than the larger tubes. If I pull up on the tip of a 11'
> assembly, the end thinnest piece does almost all the flexing, which
> is totally understandable. I'm planning on using a few spacers so
> the tubes are pointing up slightly and this should put the
spreaders
> in about the right place for the wire junctions on the higher
> frequency bands. In other words, I'm still sorting out the
geometry
> and base mounting.
>
> Allen Bond at Max-Gain mentioned that he gets about a call per week

> asking about hex-beam spreaders and thinks this would be the best
> setup.
>
> - Dave
> KQ6RL
>
> Usual disclaimers: no relationship with Max-Gain, just a customer.

1654. N8XE's new site

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-27 02:44:52 UTC
From: Jason Hissong
Topic: 1654 Message: 1654

Hi guys,

I have a new web site/domain now...

http://www.n8xe.com

The site still includes wav files and photos of our greatly loved Hexbeam!!

See ya!
--
Jason Hissong
http://www.n8xe.com
http://www.mp3.com/jasonhissong

1655. hex beam in a 60ft by25ft-30ft garden hummmmm

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-27 08:47:25 UTC
From: andy
Topic: 1655 Message: 1655

hello to all.
iv been looking at all that has been posted well all most all,,
as u can see by the subject heading i have a small garden...
and im in a biult up town,,,,
i was trying to make a 10-40 meter hex beam but can see that it cant
be done ,,but,,
there is a 5 band hex beam mmmmm that sounds like it would be the
better thing to do as there so many ham bands to cover.
(has any one tryed with a atu to see if this antenna can go a few
more bands than the five it give u ??)
im not sure but i think the 5 band hex is about 30 ft across mmmmmm
as wide as my garden,,,
im getting stuck i duno what to do dont wont to upset the people
next door as there no gaps between the houses where i live....
mabe if this hex ant going to be any good to me as of the size can
any tell me. what can i do to get that type of performance..or..
shalll i make a smaller hex and atu it hummmmmm help lol

ok all the best to all 73,s andy

1656. Re: hex beam in a 60ft by25ft-30ft garden hummmmm

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-27 22:40:55 UTC
From: w4wb
Topic: 1655 Message: 1656

--- In hex-beam@yahoogroups.com, "andy" <trigem12000@y...> wrote:
.... but,,
> there is a 5 band hex beam mmmmm that sounds like it would be the
> better thing to do as there so many ham bands to cover.
> (has any one tryed with a atu to see if this antenna can go a few
> more bands than the five it give u ??)

Yes, I have operated mine on 6, 30, 40 and 75/80 m. Some F/B in some cases and who knows the gain (or loss). In any case, I have make a number of contacts this way.

> im not sure but i think the 5 band hex is about 30 ft across mmmmmm
> as wide as my garden,,,

5-band Hex-Beam is just under 20' diameter, so would fit nicely.

73,
Barry- W4WB

> im getting stuck i duno what to do dont wont to upset the people
> next door as there no gaps between the houses where i live....
> mabe if this hex ant going to be any good to me as of the size can
> any tell me. what can i do to get that type of performance..or..
> shalll i make a smaller hex and atu it hummmmmm help lol
>
> ok all the best to all 73,s andy

1657. Exact vertical line

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-28 15:39:37 UTC
From: John
Topic: 1657 Message: 1657

Hai everybodie,
Started today the making of my own Hex-beam and like
to prepare the PVC-tube for the reflector and driven elements. But
how can I make a exact vertical line on the pvc-tube so all bolts
will be eactly in line for the driven and reflector-wires. Think its
a easy way but dont know how.
Thank everyone for a answer and succes when bulding one like mine and
i make photos from every step i make

73's de Jan PA2JJB Texel-Island IOTA EU-038

1658. Re: Exact vertical line

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-28 16:20:17 UTC
From: w4wb
Topic: 1657 Message: 1658

--- In hex-beam@yahoogroups.com, "John" <jj-bakker@q...> wrote:
> Hai everybodie,
> Started today the making of my own Hex-beam and like
> to prepare the PVC-tube for the reflector and driven elements. But
> how can I make a exact vertical line on the pvc-tube so all bolts
> will be eactly in line for the driven and reflector-wires. Think
its
> a easy way but dont know how.
> Thank everyone for a answer and succes when bulding one like mine
and
> i make photos from every step i make
>
>
> 73's de Jan PA2JJB Texel-Island IOTA EU-038

Hi Jan,

One simple way is to put the pipe in a machinist "V" block and then
run a pencil down the length using the block lip as a guide. If you
don't have this fixture, you can make one easily by attaching two
boards together orthogonally. Of course, one side should be adjusted
appropriately to allow access to the pipe. I have used this method
many times over the years for a quick and dirty method. Of course,
when I'm in my shop, I just put the pipe in a lathe and make the mark.

GL es 73,
Barry - W4WB

1659. 40 meter Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-28 17:55:40 UTC
From: Jim Isbell
Topic: 1659 Message: 1659

I would like to build my own 40 meter Hex Beam, where can I find drawings and specs for wire length etc.?

Jim W5JAI

1660. Re: 40 meter Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-28 21:52:20 UTC
From: w4wb
Topic: 1659 Message: 1660

--- In hex-beam@yahoogroups.com, Jim Isbell <millenniumfalcon@c...>
wrote:
> I would like to build my own 40 meter Hex Beam, where can I find
> drawings and specs for wire length etc.?
>
> Jim W5JAI

Look in the files area Jim and you will find the equations you need
for element lengths and such. The mechanical portion will likely be
an interesting experience of experimentation for you.

GL,
Barry - W4WB

1661. Re: Exact vertical line

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-29 06:01:44 UTC
From: ralple
Topic: 1657 Message: 1661

--- In hex-beam@yahoogroups.com, "John" <jj-bakker@q...> wrote:
> how can I make a exact vertical line on the pvc-tube ...> a easy way but dont know how.

You need to make a line the length of the tube, perfectly straight? Paint a surface, then touch the pipe to the wet paint surface. I don't think you could help but get a perfectly straight line that way.

RonP

1662. Re: [hex-beam] Digest Number 409

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-29 14:43:26 UTC
From: Eric S. Johansson
Topic: 1662 Message: 1662

hex-beam@yahoogroups.com explained:

```
>
> Message: 1
> Date: Sun, 28 Sep 2003 15:39:37 -0000
> From: "John" <jj-bakker@...>
> Subject: Exact vertical line
>
> Hai everybodie,
> Started today the making of my own Hex-beam and like
> to prepare the PVC-tube for the reflector and driven elements. But
> how can I make a exact vertical line on the pvc-tube so all bolts
> will be eactly in line for the driven and reflector-wires. Think its
> a easy way but dont know how.
> Thank everyone for a answer and succes when bulding one like mine and
> i make photos from every step i make
```

its relatively simple. Model rocketry has a similar problem for fin alignment. You can use a piece of V shaped molding or angle iron to form the line you can draw along. if you do not have a piece of V shaped molding, use a handy doorframe. There are lots of 90 degree angles in a doorframe that will hold a piece of tubing still while you draw the alignment line.

when you start drilling, use a clamp and a drill press to make sure the bolts go straight through. It's a really not very hard but take your time, measure twice, drill once.

---eric

1663. RE: [hex-beam] Exact vertical line

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-29 12:21:23 UTC
From: Varnell, Wayne
Topic: 1657 Message: 1663

Put it in the "V" of a piece of angle iron. You can use one of the legs
of the angle iron to make a perfectly straight line.

Wayne

-----Original Message-----
From: John [mailto:jj-bakker@...]
Sent: Sunday, September 28, 2003 10:40 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Exact vertical line

Hai everybodie,
Started today the making of my own Hex-beam and like
to prepare the PVC-tube for the reflector and driven elements. But
how can I make a exact vertical line on the pvc-tube so all bolts
will be eactly in line for the driven and reflector-wires. Think its
a easy way but dont know how.
Thank everyone for a answer and succes when bulding one like mine and
i make photos from every step i make

73's de Jan PA2JJB Texel-Island IOTA EU-038

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so=60178324&partid=3856299> click here

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To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

1664. Re: Digest Number 409

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-29 20:16:45 UTC
From: John
Topic: 1662 Message: 1664

--- In hex-beam@yahoogroups.com, "Eric S. Johansson" <esj@h...> wrote:
> hex-beam@yahoogroups.com explained:
>
> >
> > Message: 1
> > Date: Sun, 28 Sep 2003 15:39:37 -0000
> > From: "John" <jj-bakker@q...>
> > Subject: Exact vertical line
> >
> > Hai everybodie,
> > Started today the making of my own Hex-beam and
like
> > to prepare the PVC-tube for the reflector and driven elements.
But
> > how can I make a exact vertical line on the pvc-tube so all bolts
> > will be eactly in line for the driven and reflector-wires. Think
its
> > a easy way but dont know how.
> > Thank everyone for a answer and succes when bulding one like mine
and
> > i make photos from every step i make
>
> its relatively simple. Model rocketry has a similar problem for
fin alignment.
> You can use a piece of V shaped molding or angle iron to form the
line you can
> draw along. if you do not have a piece of V shaped molding, use a
handy
> doorframe. There are lots of 90 degree angles in a doorframe that
will hold a
> piece of tubing still while you draw the alignment line.
>
> when you start drilling, use a clamp and a drill press to make sure
the bolts go
> straight through. It's a really not very hard but take your time,
measure
> twice, drill once.
>
> ---eric

Hai Eric
' Thanks for info and I used ur suggestion, to use the
doorframe to make 3 straights vertical lines on the PVC-tube and it
works fine, I will open a photomap so everyone can see the progress I
make in building my HEX-Beam using the text and photos from VE7ASK

and DL7IO (very nice and good to reproduce)

Best 73's de Jan PA2JJB Texel-Island EU-038

1665. Opened photomap PA2JJB

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-29 20:53:28 UTC
From: John
Topic: 1665 Message: 1665

Hello everyone,
As promised, i will make a photo from every step I
make building the hexbeam, and put it in my map PA2JJB

73's de Jan PA2JJB Texel-Island IOTA-EU038

1666. MMANA????

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-30 00:47:20 UTC
From: Jim Isbell
Topic: 1666 Message: 1666

What is MMANA?????

1667. Re: [hex-beam] MMANA????

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-30 03:32:03 UTC
From: Hiroyuki C. Miyake
Topic: 1666 Message: 1667

> What is MMANA?????

Look at http://www.qsl.net/mmhamsoft/mmana/index.htm

GL

Hiro JF1OCQ / W1VX / ZL1WY

1668. Re: [hex-beam] MMANA????

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-30 04:39:31 UTC
From: A.Tahir DENGIZ
Topic: 1666 Message: 1668

It is an antenna software for calculations of the behavior of the antennas under RF signal. You can use this software to calculate the correct lenghts of the elements, to calculate the SWR , bandwith, front the back ratio , gain etc. for definite frequency.

You can find MMANA file for the best antenna wire sizes in "files" section of the group . I downloaded the software from internet and it is great.

A.Tahir Dengiz
Ankara-Turkey

On 30 Sep 2003 04:16 EEST you wrote:

>
>
>
> What is MMANA?????
>

1669. New pics progress off hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-09-30 20:01:43 UTC
From: PA2JJB
Topic: 1669 Message: 1669

Hello everyone,
Put some pics of the making from the feedline-parts of
the 5band hexbeam. I used 2,5 quadrat installation wire and hope this
will do the job ???

Best 73's de Jan PA2JJB

1670. NP2SH using the HX-5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-01 12:40:49 UTC
From: w4wb
Topic: 1670 Message: 1670

Folks,

Members of the DXpedition to St. John, U.S. Virgin Islands, 3-13 October 2003, will be using a HX-5B Hex-Beam. They will be participating in the CA and PA QSO Parties as well. For more information about this DXpedition, see http://www.w3srl.com/.

73,
Barry - W4WB

1671. Re: New pics progress off hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-02 13:00:04 UTC
From: sieb_k
Topic: 1669 Message: 1671

--- In hex-beam@yahoogroups.com, "PA2JJB" <jj-bakker@q...> wrote:
> Hello everyone,
> Put some pics of the making from the feedline-parts
of
> the 5band hexbeam.

Thanks for the pics Jan,So far it all looks very good.

I used 2,5 quadrat installation wire and hope this
> will do the job ???

The wire should do the job very well,however you should consider
measuring the diameter of the wire in MM. The designation 2.5 quadrat
is not known in the English speaking world..
MAW Jan,in New Zealand they are talking about 7/029 wire (good for 15
Amps)
In North America we talk about #14 wire (also good for 15 Amps)

>
> Best 73's de Jan PA2JJB

What kind of arms are you going to use? It determines the bend and
also the distance between the bolts.

Please send me your E-mail address so that we can converse in Dutch..
73 de Sieb,,VE3JUA..
sieb_kNO@...
remove NOSPAM.

1672. Re: New pics progress off hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-02 17:07:07 UTC
From: PA2JJB
Topic: 1669 Message: 1672

--- In hex-beam@yahoogroups.com, "sieb_k" <sieb_k@y...> wrote:
> --- In hex-beam@yahoogroups.com, "PA2JJB" <jj-bakker@q...> wrote:
> > Hello everyone,
> > Put some pics of the making from the feedline-parts
> of
> > the 5band hexbeam.
>
> Thanks for the pics Jan,So far it all looks very good.
>
> I used 2,5 quadrat installation wire and hope this
> > will do the job ???
>
> The wire should do the job very well,however you should consider
> measuring the diameter of the wire in MM. The designation 2.5
quadrat
> is not known in the English speaking world..
> MAW Jan,in New Zealand they are talking about 7/029 wire (good for
15
> Amps)
> In North America we talk about #14 wire (also good for 15 Amps)
>
> >
> > Best 73's de Jan PA2JJB
>
> What kind of arms are you going to use? It determines the bend and
> also the distance between the bolts.
>
> Please send me your E-mail address so that we can converse in
Dutch..
> 73 de Sieb,,VE3JUA..
> sieb_kNO@S...
> remove NOSPAM.
mn eigen emailadres gebruikt maar krijg je mail weer terug damn hier
maar.....

Hallo Sieb,
Ik dacht al gelijk dat ik met een weggelopen
hollander had te maken lol. MAW is natuurlijk puur Hollands lol.
Ja ben stap voor stap begonnen, en met zoveel nabouwers moet het
toch mogelijk zijn om het tot een goed einde te brengen.
Heb inmiddels bamboostokken van 3M lang bij de aankoopcentrale
Welkoop hier op texel zien liggen, dus moeten we zaterdag maar even
kijken of dat wat is Sieb.Zag op onze kabelkrant advertentie van een
winkel met hengels van glasfiber moeten we ook maar even gaan kijken
zaterdag.Ben benieuwd of jij de hexbeam ook gebouwd hebt of nog gaat

bouwen.
Hartelijke groeten vanaf een zonnig eiland Texel

73's de Jan PA2JJB Texel-Island EU-038

Mn emailadres op texel is jj-bakker@...

1673. homebrew

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-05 19:04:43 UTC
From: scott sheppard
Topic: 68 Message: 1673

Hello all,

Is there a homebrew version of a 20m monobander that anyone is aware of?

I would like to try and build one. If you have or know of information, please advise.

Many Thanks

scott VA3ZW

[Non-text portions of this message have been removed]

1674. Re: [hex-beam] Homebrew

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-06 09:20:00 UTC
From: David Douglass
Topic: 1674 Message: 1674

Scott,

There should be a pdf file in the "Files" section, which has the dimensions for the 20M version. Can't remember the name, but it was one of the original articles written by Mike Traffie on the Hexbeam..

GL - David, VK2DPD
>
> Message: 1
> Date: Sun, 05 Oct 2003 15:04:43 -0400
> From: scott sheppard <scottsheppard@...>
> Subject: homebrew
>
> Hello all,
>
> Is there a homebrew version of a 20m monobander that anyone is aware of?
>
> I would like to try and build one. If you have or know of information, please advise.
>
> Many Thanks
>
> scott VA3ZW
>
>
> [Non-text portions of this message have been removed]

1675. Re: Digest Number 409

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-07 15:20:22 UTC
From: DJCOL1
Topic: 1662 Message: 1675

--- In hex-beam@yahoogroups.com, "John" <jj-bakker@q...> wrote:
> --- In hex-beam@yahoogroups.com, "Eric S. Johansson" <esj@h...>
wrote:
> > hex-beam@yahoogroups.com explained:
> >
> > >
> > > Message: 1
> > > Date: Sun, 28 Sep 2003 15:39:37 -0000
> > > From: "John" <jj-bakker@q...>
> > > Subject: Exact vertical line
> > >
> > > Hai everybodie,
> > > Started today the making of my own Hex-beam and
> like
> > > to prepare the PVC-tube for the reflector and driven elements.
> But
> > > how can I make a exact vertical line on the pvc-tube so all
bolts
> > > will be eactly in line for the driven and reflector-wires.
Think
> its
> > > a easy way but dont know how.
> > > Thank everyone for a answer and succes when bulding one like
mine
> and
> > > i make photos from every step i make
> >
> > its relatively simple. Model rocketry has a similar problem for
> fin alignment.
> > You can use a piece of V shaped molding or angle iron to form
the
> line you can
> > draw along. if you do not have a piece of V shaped molding, use
a
> handy
> > doorframe. There are lots of 90 degree angles in a doorframe
that
> will hold a
> > piece of tubing still while you draw the alignment line.
> >
> > when you start drilling, use a clamp and a drill press to make
sure
> the bolts go
> > straight through. It's a really not very hard but take your
time,

> measure
> > twice, drill once.
> >
> > ---eric
>
>
>
> Hai Eric
> ' Thanks for info and I used ur suggestion, to use the
> doorframe to make 3 straights vertical lines on the PVC-tube and it
> works fine, I will open a photomap so everyone can see the progress
I
> make in building my HEX-Beam using the text and photos from VE7ASK
> and DL7IO (very nice and good to reproduce)
>
> Best 73's de Jan PA2JJB Texel-Island EU-038

Hi Jan,
My 1st post on the reflector (although i`ve been lurking for a while).
Good to see you solved the marking problem and are progressing with
the fun part of construction.
Just for reference - a good way to hold a round tube for marking
and/or drilling is to put a `U` bolt with saddle on each end,just
tighten the nuts finger tight, align them on a flat surface and
tighten carefully without moving the bolts. The tube will sit firmly
on the `studs` of the `U` bolts while you mark or drill.

Best 73`s & good luck with your hex-beam project.

Colin

1676. Put new pics in photomap PA2JJB

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-11 09:46:34 UTC
From: PA2JJB
Topic: 1676 Message: 1676

Hello everyone,
Find 3 bamboorods and ordered 3 more today. Couldnt
find the exact hoseclamps here on the island, so I have experiment
with PVC-tube from 32mm = 1,5inch I think with thick wall. Cut a 4 mm
PVC out of it (see pictures) so it can press the bamboorods.....So
this will be the work for the coming days. Enough to discuss with my
collega PH0DX who is assembling a monoband HRX-Beam for 20M so he can
start HF-QSO for the very first time

73's and succes in building the HEX-beam

Jan en Lourens PA2JJB and PH0DX

1677. Hexbeam vs. MA5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-10 23:10:42 UTC
From: ke4vpe
Topic: 1677 Message: 1677

Currently I am using the MA5B, and I am thinking about replacing it with a 5 band Hexbeam. Since the Hexbeam cost 2.5 times the cost of the MA5B, do you think it is worth the additional expense? Will the Heambeam significantly outperform the MA5B? I know that the Hexbeam will perform better on 12/17 meters, but what about 10/15/20?

Thanks,

RC

1678. Re: Hexbeam vs. MA5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-11 16:53:37 UTC
From: w4wb
Topic: 1677 Message: 1678

Hi RC,

Well, first of all, the HX-5Bi costs 50% more that the MA5B ($889 vs $599). I have never used the MA5B, but looking at the photo of the MA5B makes me confident that the HX-5Bi will beat it hands down. The MA5B appears to have 3 elements spaced on a 7' boom, with traps and capactive hats. In contrast, the HX-5Bi is a collection of 5 two-element beams, each having full size elements with no traps, etc.

Folks that I know that have switched from the conventional Yagi to the HX-5Bi comment on how quiet it is and how well it performs.

I think the question to ask IMO of Hex-Beam owners is if they had to make the decision again, would they buy the Hex-Beam again. In my case, I would unless I could have an antenna farm that isn't realistic! :-)

Maybe someone else has used the MA5B and can give you a first-hand opinion.

$889 may seem high, but it is well built, will last, and perform very well.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "ke4vpe" <ke4vpe@y...> wrote:
> Currently I am using the MA5B, and I am thinking about replacing it
> with a 5 band Hexbeam. Since the Hexbeam cost 2.5 times the cost of
> the MA5B, do you think it is worth the additional expense? Will the
> Heambeam significantly outperform the MA5B? I know that the Hexbeam
> will perform better on 12/17 meters, but what about 10/15/20?
>
> Thanks,
>
> RC

1679. Re: Hexbeam vs. MA5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-11 17:56:48 UTC
From: ke4vpe
Topic: 1677 Message: 1679

The MA5B sells for $329.00.

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> Hi RC,
>
> Well, first of all, the HX-5Bi costs 50% more that the MA5B ($889
vs
> $599). I have never used the MA5B, but looking at the photo of
the
> MA5B makes me confident that the HX-5Bi will beat it hands down.
The
> MA5B appears to have 3 elements spaced on a 7' boom, with traps
and
> capactive hats. In contrast, the HX-5Bi is a collection of 5 two-
> element beams, each having full size elements with no traps, etc.
>
> Folks that I know that have switched from the conventional Yagi to
> the HX-5Bi comment on how quiet it is and how well it performs.
>
> I think the question to ask IMO of Hex-Beam owners is if they had
to
> make the decision again, would they buy the Hex-Beam again. In my
> case, I would unless I could have an antenna farm that isn't
> realistic! :-)
>
> Maybe someone else has used the MA5B and can give you a first-hand
> opinion.
>
> $889 may seem high, but it is well built, will last, and perform
very
> well.
>
> 73,
> Barry - W4WB
>
>
>
> --- In hex-beam@yahoogroups.com, "ke4vpe" <ke4vpe@y...> wrote:
> > Currently I am using the MA5B, and I am thinking about replacing
it
> > with a 5 band Hexbeam. Since the Hexbeam cost 2.5 times the cost
of
> > the MA5B, do you think it is worth the additional expense? Will
the
> > Heambeam significantly outperform the MA5B? I know that the

Hexbeam
> > will perform better on 12/17 meters, but what about 10/15/20?
> >
> > Thanks,
> >
> > RC

1680. hexbeam versus ma5b

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-11 18:46:33 UTC
From: kd6wd
Topic: 1680 Message: 1680

I have friends who have both of these antennas. One is kd6cys in the San Diego area. He loves the hexbeam. Another friend ny4pd in florida has the ma5b. I have a 2 element lightning bolt quad. The ma5b hears well but does not have quite as much transmission punch as the hexbeam. Claude (kd6cys) and I regularly work the same stations across the country with similar signal reports for my quad and his hexbeam. Brian ny4pd needs a bit more power with his ma5b than other stations in florida using hexbeams to my qth. Its about 1 s unit difference to my qth in Redding California on 17 meters. In my opinion, considering the short turning radius of these antennas they are both great. If you have the bucks get the hexbeam it works very well at lower heights. If you have a tower at 40 feet, the ma5b will work well and you save a few bucks. I am planning a move to florida and would like to be able to keep my quad. However, I would not have a problem purchasing either the ma5b or the hexbeam. I would just prefer the hexbeam because of the extra gain on 17 meters. I believe both of these antennas can use a radio shack rotor. If you can put up a bigger antenna try the Lightning Bolt quad. It will require a HamIV or Yaesu 800 to turn it without excessive wear. And at around $300 dollars delivered, its very good bang for the buck.

73's
kd6wd

1681. Re: Hexbeam vs. MA5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-11 20:59:46 UTC
From: w4wb
Topic: 1677 Message: 1681

--- In hex-beam@yahoogroups.com, "ke4vpe" <ke4vpe@y...> wrote:
> The MA5B sells for $329.00.
>
I picked you the $599 price on the Internet at
http://www.durhamradio.com/cushcraft-ma5b.htm.

In checking some more, Universal Radio states List Price: $473.39
Your Price: $369.95. You clearly found an evcen better price.

My interest in seeing what this little guy is about was increased
enough for me to look at the Cushcraft site. The parameters are
shown below. Weight is 26 lbs and HB is about 20 lbs.

On 12 and 17 m, the gain in dBi is just 1 and it has but one element.
So it isn't a beam at all on these bands, just a rotatable dipole.
On other bands, it has 2 elements. F/B isn't impressive. The affect
of the loading is evident in the 2:1 bandwidth. 90 kHz on 20 m is
not for me since I operate CW, PSK, RTTY, and SSB. Same on 15 m if
you operate CW and SSB. It might be a nice little 3-band, 2-element
beam (and dual dipoles), but the Hex-Beam eats its lunch IMO when you
consider F/B, gain, beam performance on all five bands, and excellent
operating bandwidth. So it is worth the extra $500 to have the HEx-
Beam performance on all bands? To me it would be again, but then not
to all I would guess.

Frequency, Mhz 10 12 15 17 20
Active elements 2 1 2 1 2
Gain, dbi 5.3 1.0 4.8 1 3.6
Front to back ratio 10 0 12 0 22
Side lobe Atten. 25 25 25 25 25
VSWR 2.1
bandwidth 665 Khz 110 Khz 255 Khz 100 Khz 90 Khz

73,
Barry - W4WB

1682. Re: Hexbeam vs. MA5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-11 21:52:58 UTC
From: ke4vpe
Topic: 1677 Message: 1682

I got my MA5B from R&L Electronics http://www.randl.com. The $599
price at Durhamradio is in Canadian dollars. So how well would the
Hexbeam work at 25 feet?

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@yahoogroups.com, "ke4vpe" <ke4vpe@y...> wrote:
> > The MA5B sells for $329.00.
> >
> I picked you the $599 price on the Internet at
> http://www.durhamradio.com/cushcraft-ma5b.htm.
>
> In checking some more, Universal Radio states List Price:
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> Your Price: $369.95. You clearly found an evcen better price.
>
> My interest in seeing what this little guy is about was increased
> enough for me to look at the Cushcraft site. The parameters are
> shown below. Weight is 26 lbs and HB is about 20 lbs.
>
> On 12 and 17 m, the gain in dBi is just 1 and it has but one
element.
> So it isn't a beam at all on these bands, just a rotatable
dipole.
> On other bands, it has 2 elements. F/B isn't impressive. The
affect
> of the loading is evident in the 2:1 bandwidth. 90 kHz on 20 m is
> not for me since I operate CW, PSK, RTTY, and SSB. Same on 15 m
if
> you operate CW and SSB. It might be a nice little 3-band, 2-
element
> beam (and dual dipoles), but the Hex-Beam eats its lunch IMO when
you
> consider F/B, gain, beam performance on all five bands, and
excellent
> operating bandwidth. So it is worth the extra $500 to have the
HEx-
> Beam performance on all bands? To me it would be again, but then
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> to all I would guess.
>
> Frequency, Mhz 10 12 15 17 20
> Active elements 2 1 2 1 2
> Gain, dbi 5.3 1.0 4.8 1 3.6
> Front to back ratio 10 0 12 0 22
> Side lobe Atten. 25 25 25 25 25

> VSWR 2.1
> bandwidth 665 Khz 110 Khz 255 Khz 100 Khz 90 Khz
>
> 73,
> Barry - W4WB

1683. Re: [hex-beam] Hexbeam vs. MA5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-11 22:42:30 UTC
From: Jason Hissong
Topic: 1677 Message: 1683

Hello,

Is it worth the more money? I guess the question is what is your antenna support system like? If you are using a beefy rotor, then you could go with a nice 5 band Quad (like Lightning Bolt Antennas) which is about the same price as the MA5B. Do you have the room for a larger turning radius? Then the quad and/or a Tennadyne log periodic may do the trick for you (the Tennadynes start at 489.00 and have a 20 ft turning radius).

The Hexbeam allows you to fit alot of great features into a small package. You are not lowering radiation efficiencies by ANY type of loading. So if you have small space (like me), then the Hexbeam is perfect to replace your MA5B.

If you have a nice antenna support system, then by all means go with a quad and save some cash.

I still love my Hexbeam! It has allowed me to work SSB to countries I have never been able to reach before (like China!)

73
Jason Hissong
http://www.n8xe.com

ke4vpe wrote:
> Currently I am using the MA5B, and I am thinking about replacing it
> with a 5 band Hexbeam. Since the Hexbeam cost 2.5 times the cost of
> the MA5B, do you think it is worth the additional expense? Will the
> Heambeam significantly outperform the MA5B? I know that the Hexbeam
> will perform better on 12/17 meters, but what about 10/15/20?
>
> Thanks,
>
> RC
>
>
>
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--
Jason Hissong
http://www.n8xe.com
http://www.jasonhissong.com

1684. Re: Hexbeam vs. MA5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-11 23:53:33 UTC
From: ke4vpe
Topic: 1677 Message: 1684

My MA5B is mounted at 30 feet. The mast is 30 feet of rigid conduit, and the rotor is a Channel Master rotor. I am restricted by a turning radius of 10 feet unless I remove a tree. My XYL already ruled against cutting down the tree. In addition, I have antenna restrictions (CCR), so the antenna can't be too large, and it can't be seen from the front of my home.

My MA5B works well when compared to my G5RV, but the F/S and F/B is not very good. On numerous occassions, I have heard DX on the MA5B and only heard static on the G5RV. The G5RV is installed at 35 feet in an inverted v configuration.

I really would like to improve my performance on 20 meters, since the MA5B is not broadbanded on this band.

--- In hex-beam@yahoogroups.com, Jason Hissong <jhisson1@c...> wrote:
> Hello,
>
> Is it worth the more money? I guess the question is what is your
> antenna support system like? If you are using a beefy rotor, then
you
> could go with a nice 5 band Quad (like Lightning Bolt Antennas)
which is
> about the same price as the MA5B. Do you have the room for a
larger
> turning radius? Then the quad and/or a Tennadyne log periodic may
do the
> trick for you (the Tennadynes start at 489.00 and have a 20 ft
turning
> radius).
>
> The Hexbeam allows you to fit alot of great features into a small
> package. You are not lowering radiation efficiencies by ANY type
of
> loading. So if you have small space (like me), then the Hexbeam
is
> perfect to replace your MA5B.
>
> If you have a nice antenna support system, then by all means go
with a
> quad and save some cash.
>
> I still love my Hexbeam! It has allowed me to work SSB to
countries I
> have never been able to reach before (like China!)
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> 73
> Jason Hissong
> http://www.n8xe.com
>
>
> ke4vpe wrote:
> > Currently I am using the MA5B, and I am thinking about replacing
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> > Thanks,
> >
> > RC
> >
> >
> >
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<http://rd.yahoo.com/M=259395.3614674.4902533.1261774/D=egroupweb/S=1
705063108:HM/A=1524963/R=0/SIG=12o885gmo/*http://hits.411web.com/cgi-
bin/autoredir?camp=556&lineid=3614674&prop=egroupweb&pos=HM>
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Service
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>
> --
> Jason Hissong
> http://www.n8xe.com
> http://www.jasonhissong.com

1685. Re: Hexbeam vs. MA5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-12 02:11:16 UTC
From: w4wb
Topic: 1677 Message: 1685

--- In hex-beam@yahoogroups.com, "ke4vpe" <ke4vpe@y...> wrote:
> I got my MA5B from R&L Electronics http://www.randl.com. The $599
> price at Durhamradio is in Canadian dollars. So how well would the
> Hexbeam work at 25 feet?
>
Well how about that! Our good friends to the north use our $ sign
too. ;-)

Seriously though, the HB will do fine at 25'. Many are using it
around this height. Maybe a few will comment that are. It is
designed/tuned for the 20 m element to be at 42'. My HB is at about
35' (20 m elements) and does fine. Main difference is a raising of
the take-off angle as you go lower. This is the same for all Yagi
and such antennas of course. When you say 25', do you mean th3 top
of the mast, the base of the antenna or what. If it is where you
mount the rotor, the 20 m elements will be about 4' higher.

73,
Barry - W4WB

1686. Re: [hex-beam] Re: Hexbeam vs. MA5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-12 03:58:17 UTC
From: Jason Hissong
Topic: 1677 Message: 1686

From the sounds of it, your best bet is to go with a Hexbeam if you want to replace the MA5B. I think the Hexbeam is a superior product in regards to radiation resistance compared to the loading that occurs in the MA5B. The Hexbeam is 9.4' turning radius, gives you gain on ALL bands (the thing sings on 17), and it is very unobtrusive. Your rotor will have no problem with it. I assume your mast is secured against the house or guyed.

I think the Hexbeam looks better as well (you know, the XYL factor! HIHI).

The other thing is that Traffie Technologies offers a 30 day money back guarantee if you are not happy with it. You are only out shipping. I will warn you though... only one has ever gone back! :)

So it sounds like in your installation, the Hexbeam would be your best bet. My Hexbeam (www.n8xe.com for details) is at 32' and it performs very well. I also have sound bytes of A/B comparisons between the Hexbeam and my dipole.

If you want, let me know and we can do a sched and we can do A/B comparisons. I know the rest of the guys would also have the same offer. Maybe tomorrow evening? Anybody else want in on this?

73
Jason Hissong
www.n8xe.com

ke4vpe wrote:
> My MA5B is mounted at 30 feet. The mast is 30 feet of rigid
> conduit, and the rotor is a Channel Master rotor. I am restricted
> by a turning radius of 10 feet unless I remove a tree. My XYL
> already ruled against cutting down the tree. In addition, I have
> antenna restrictions (CCR), so the antenna can't be too large, and
> it can't be seen from the front of my home.
>
> My MA5B works well when compared to my G5RV, but the F/S and F/B is
> not very good. On numerous occassions, I have heard DX on the MA5B
> and only heard static on the G5RV. The G5RV is installed at 35 feet
> in an inverted v configuration.
>
> I really would like to improve my performance on 20 meters, since
> the MA5B is not broadbanded on this band.
>
> --- In hex-beam@yahoogroups.com, Jason Hissong <jhisson1@c...> wrote:
> > Hello,
> >

> > Is it worth the more money? I guess the question is what is your
> > antenna support system like? If you are using a beefy rotor, then
> you
> > could go with a nice 5 band Quad (like Lightning Bolt Antennas)
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> > about the same price as the MA5B. Do you have the room for a
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> > turning radius? Then the quad and/or a Tennadyne log periodic may
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> > 73
> > Jason Hissong
> > http://www.n8xe.com
> >
> >
> > ke4vpe wrote:
> > > Currently I am using the MA5B, and I am thinking about replacing
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> > > Thanks,
> > >
> > > RC
> > >
> > >
> > >

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> > >
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> >
> > --
> > Jason Hissong
> > http://www.n8xe.com
> > http://www.jasonhissong.com
>
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963/R=0/SIG=12o885gmo/*http://hits.411web.com/cgi-bin/autoredir?camp=556&lineid=3614674&pr
op=egroupweb&pos=HM>
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> <http://docs.yahoo.com/info/terms/>.

--
Jason Hissong
http://www.n8xe.com
http://www.jasonhissong.com

1687. Re: Re: Hexbeam vs. MA5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-12 10:13:35 UTC
From: David Douglass
Topic: 1677 Message: 1687

If price is a major consideration, make a HexBeam. It's pretty easy to do, the instructions are well documented on the group, and it would be a fraction of the price of the HX5i and the MA5B..

IMHO

Dvaid, Vk2DPD

1688. Re: [hex-beam] Re: Hexbeam vs. MA5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-12 16:34:07 UTC
From: Eric Carling
Topic: 1677 Message: 1688

My hexbeam is at 25-27ft (that is the height of the very top) - it works well, undoubtedly it would work better at another 10ft up but I am very pleased with the performance. Whereas you can get near optimum performance of a hexbeam at this height, you would have to put the MA5B higher for it to achieve its spec.

I suppose it depends on its intended use: if you are not very active, like a rag-chew across your Continent, you could spend less and manage quite well with a MA5B. If you want to compete in pile-ups, do a bit of contesting then spend more and reap the rewards of a hexbeam.

Eric G0CGL.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: Sunday, October 12, 2003 02:11:20
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Hexbeam vs. MA5B

--- In hex-beam@yahoogroups.com, "ke4vpe" <ke4vpe@y...> wrote:
> I got my MA5B from R&L Electronics http://www.randl.com. The $599
> price at Durhamradio is in Canadian dollars. So how well would the
> Hexbeam work at 25 feet?
>
Well how about that! Our good friends to the north use our $ sign too. ;-)

Seriously though, the HB will do fine at 25'. Many are using it around this height. Maybe a few will comment that are. It is designed/tuned for the 20 m element to be at 42'. My HB is at about 35' (20 m elements) and does fine. Main difference is a raising of the take-off angle as you go lower. This is the same for all Yagi and such antennas of course. When you say 25', do you mean th3 top of the mast, the base of the antenna or what. If it is where you mount the rotor, the 20 m elements will be about 4' higher.

73,
Barry - W4WB

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To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

1689. Two Hexbeam Questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-12 14:08:42 UTC
From: Dennis Spiess
Topic: 1689 Message: 1689

I just put up the 5 band HexBeam # 298 and have two questions for this group. I will call for tech assistances too!

1.) The antenna is tuning out of the band plan.... 2.0:1 band edges are: 14.05 - 14.50 (>2.0:1 below 14.05), 18.70 - 18.94, 21.00 is OK, 24,95 - 26.128, 28 is OK.
Any ideas how to tune to the bands?

2.) I do not have a balun / choke on the feedline. Will this possible help? Where should the choke be located? Right at the feed point or below the spreader?

The antenna is at 25 feet above ground. ~5 feet over the roof on a tripod. Feed Line drops almost vertcally to the ground then into a basement shack.

Thanks for your help
Den

1690. Measurements 20m homebrew hex.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-12 19:43:13 UTC
From: PH0DX
Topic: 1690 Message: 1690

Hi All.

I just made an 20m monoband hexbeam,
did some measurements using an AEA VIA-HF
antenna analyzer.

Antenna height +/- 3 meters above a flat roof(3m height),
Director element length 10,92m
Reflector element length 11,56m
Driven element spacing 0,18m
Reflector element spacing 0,11m
overall spacing 0,26m

I think vswr will go down if placed on a mast
at 12 meters above ground level,
also the resonance freq will go up slightly,
this beam is optimized for SSB..

Photos are placed in:
Photo Albums > SWR Plots > PH0DX 20m Monoband

73's de Lourens, PH0DX

1691. Re: [hex-beam] Two Hexbeam Questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-12 22:41:35 UTC
From: Jason Hissong
Topic: 1689 Message: 1691

Dennis,

I am wondering if it is reacting to something nearby like another antenna? I don't know if the balun will help you there. Anybody else have an idea?

Jason

Dennis Spiess wrote:
> I just put up the 5 band HexBeam # 298 and have two questions for
> this group. I will call for tech assistances too!
>
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> below the spreader?
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> The antenna is at 25 feet above ground. ~5 feet over the roof on a
> tripod. Feed Line drops almost vertcally to the ground then into a
> basement shack.
>
> Thanks for your help
> Den
>
>
>
> *Yahoo! Groups Sponsor*
> <http://rd.yahoo.com/M=259395.3614674.4902533.1261774/D=egroupweb/S=1705063108:HM/A=1524963/R=0/SIG=12o885gmo/*http://hits.411web.com/cgi-bin/autoredir?camp=556&lineid=3614674&prop=egroupweb&pos=HM>
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/>.

--
Jason Hissong
http://www.n8xe.com
http://www.jasonhissong.com

1692. Re: Two Hexbeam Questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-13 02:25:32 UTC
From: w6hb
Topic: 1689 Message: 1692

Hello,

Regarding the reported VSWR issues:

1. Do you have metal guttering, metal flashing around the roof eaves and or house wiring in the attic or crawl space?
2. Does the VSWR change as you rotate the Hex?

If the answer to the above is "yes" the near field metal is the probable cause. To prove this out raise the Hex by at least 10'. Verify no other antennas that might possibly be resonant on the bands of concern are in the near field. Let us know what you are using to record the reported readings.

As to the balun,the recommended choice is to install 6 Amidon FB-77-1024 cores on the coax just below the Hex's base plate. This may or may not have a major affect on the VSWR readings. For more detail on this search the archives or contact Barry, W4WB. Keep us posted on your findings for further support.

73 / Doug / W6HB

--- In hex-beam@yahoogroups.com, "Dennis Spiess" <DenS1950@H...> wrote:
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> tripod. Feed Line drops almost vertcally to the ground then into a
> basement shack.
>
> Thanks for your help
> Den

1693. Re: [hex-beam] Re: Two Hexbeam Questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-13 12:19:20 UTC
From: Dennis Spiess
Topic: 1689 Message: 1693

Doug,

Thanks for your input. I have had some more time to investigate the SWR. Yes, the SWR does change as I rotate the beam especially on 14, 18 and 24 mHz. There are directions where the readings are as reported and directions where the SWR is closer to what I would have expected for the antenna! These variations are consistant from band to band. The 'good' direction is consistant for all bands.
The only other HF antenna is a Butternut vertical for 30,40 & 80M. It is ground mounted 30+ feet from the Hexbeam.

I am using an Autek WM1 meter in the shack at the transmitter. I think it is pretty accurate. The SWR meter in the rig agrees with it.

The antenna is ~ 5 feet over the roof which is above a second floor apartment. I am sure there are wires in the ceiling under the roof. The entire house is aluminum sided but the antenna is pretty well centered on the roof and is 10+ feet from any aluminium.

I have new coax and the Palomar balun kit on order and was planning on installing both when they arrive.

It will not be easy to raise the antenna. It could be done but I will need to either replace the tripod, it is 3 foot high or raise the rotor up on a pole and guy it below the antenna. Then figure out how to get the antenna up the 10 feet onto the rotor.

Any ideas / suggestions would be appreciated.

I thought this would be easy.... stupid me.

Den W2DEN

>From: "w6hb" <w6hb@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] Re: Two Hexbeam Questions
>Date: Mon, 13 Oct 2003 02:25:32 -0000
>
>Hello,
>
>Regarding the reported VSWR issues:
>
>1. Do you have metal guttering, metal flashing around the roof eaves
>and or house wiring in the attic or crawl space?
>2. Does the VSWR change as you rotate the Hex?
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>If the answer to the above is "yes" the near field metal is the
>probable cause. To prove this out raise the Hex by at least 10'.
>Verify no other antennas that might possibly be resonant on the bands
>of concern are in the near field. Let us know what you are using to
>record the reported readings.
>
>As to the balun,the recommended choice is to install 6 Amidon FB-77-
>1024 cores on the coax just below the Hex's base plate. This may or
>may not have a major affect on the VSWR readings. For more
>detail on this search the archives or contact Barry, W4WB. Keep us
>posted on your findings for further support.
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>73 / Doug / W6HB
>
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> > The antenna is at 25 feet above ground. ~5 feet over the roof on a
> > tripod. Feed Line drops almost vertcally to the ground then into a
> > basement shack.
> >
> > Thanks for your help
> > Den
>

_____
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1694. Re: Hexbeam vs. MA5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-13 12:39:46 UTC
From: Dennis Spiess
Topic: 1677 Message: 1694

My inputs, why I just bought a Hexbeam:

1. The Hexbeam is just wires. It will be good old reliable wires 10 years from now. No smoke, no mirrors, no traps, caps etc. to go bad or go out of tune. No aluminium to 'corrode' and stop working. There is nothing simplier or more reliable than a wire antenna.

2. My new Hex replaced a Butternut Butterfly which was pure magic (smoke and mirrors). The Butterfly never tuned well. Didn't receive too well, transmitted about the same as a dipole. As time went by it slowly lost what tune it did have. I did logged my second hundred countiries on my Butternuts (also have a vertical). Looking back most of the contacts on the small beam were @ 600+ watts!

3. Listening with the Hex is like putting megaphones in my ears WoW. It really captures the signals. Probalbly due to the full sized elements. MUCH more capture area. I NEVER heard my low voltage halogen lights before... guess I will have to quiet the them down now! (Anyone have any ideas?)

4. My wife, also a ham but not into cluttering the house with antennas, thinks the Hex is 'cute'.

All I need to do is get it stop 'seeing' my house below it which appears to be my problem.... refer to my thread on tuning.

Just my 2 cents

Den W2DEN

1695. Re: Two Hexbeam Questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-13 18:54:33 UTC
From: w4wb
Topic: 1689 Message: 1695

Hi Den,

You likely are suffering because of the siding, the proximate wiring unser the antenna, and perhaps metal ducting in the apartment's roof area. More than likely, the only cure is to get some more height. Even 3-5' would likely help. The HB is fussy about metal stuff underneath it too close.

Unless they have recently changed, the Palomar kit uses Type 43 material. After having played with many of the materials and studied their characteristics, Type 43 is not so desirable. The Type 73, 77, or 31 (31 is okay unless it gets hot ... its Curie temperature is about 100 C less than for the 77 or 73). 43 is good for VHF and UHF.

GL,
Barry- W4WB

--- In hex-beam@yahoogroups.com, "Dennis Spiess" <DenS1950@H...>
wrote:
> Doug,
>
> Thanks for your input. I have had some more time to investigate the
SWR.
> Yes, the SWR does change as I rotate the beam especially on 14, 18
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> mHz. There are directions where the readings are as reported and
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> variations are consistant from band to band. The 'good' direction
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> consistant for all bands.
> The only other HF antenna is a Butternut vertical for 30,40 & 80M.
It is
> ground mounted 30+ feet from the Hexbeam.
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> I am using an Autek WM1 meter in the shack at the transmitter. I
think it is
> pretty accurate. The SWR meter in the rig agrees with it.
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> The antenna is ~ 5 feet over the roof which is above a second floor
> apartment. I am sure there are wires in the ceiling under the roof.
The
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centered on
> the roof and is 10+ feet from any aluminium.

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> I have new coax and the Palomar balun kit on order and was planning
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> It will not be easy to raise the antenna. It could be done but I
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> to either replace the tripod, it is 3 foot high or raise the rotor
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> pole and guy it below the antenna. Then figure out how to get the
antenna up
> the 10 feet onto the rotor.
>
> Any ideas / suggestions would be appreciated.
>
> I thought this would be easy.... stupid me.
>
> Den W2DEN
>
>

1696. Re: Two Hexbeam Questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-13 20:37:33 UTC
From: w6hb
Topic: 1689 Message: 1696

Hi Den,

I can't quite envision your tripod, but can you leave the rotator on or in the tripod? Can you then bolt the Hex to a length of 1" pipe, stab it into the rotator and use Dacron guys on a bearing ring just below the Hex? Traffie's HDX-30 mast might be a solution also even if you can't put it up at the full height. Don't hesitate to call Mike Traffie at his toll free number for ideas.

73 / Doug / W6HB

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> >From: "w6hb" <w6hb@a...>
> >Reply-To: hex-beam@yahoogroups.com
> >To: hex-beam@yahoogroups.com
> >Subject: [hex-beam] Re: Two Hexbeam Questions
> >Date: Mon, 13 Oct 2003 02:25:32 -0000
> >
> >Hello,
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> >1. Do you have metal guttering, metal flashing around the roof
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1697. Re: [hex-beam] Re: Two Hexbeam Questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-15 13:14:26 UTC
From: Dennis Spiess
Topic: 1689 Message: 1697

Doug,

It is just a small tripod I picked up years ago, about 3 feet high with the rotor sitting just above it.

I think I have the solution.
I am going to increase the height of the rotor above the roof to ~ 4 feet by replacing the pipe in the tripod with a longer one. I'll attach the rotor to the antanna / mast and rotate it up as one piece. The weight of the rotor/mast will counter the torque of the antenna. (The roof is very flat so working on it is easy.) I'll guy the bottom of the rotor with 5/16 dacron line...(I have been advised NOT to use wire guys, I see why now!) I just need to find one rafter under the shingles for a guy... perhaps a stud finder will do the trick. This will take a lot of strain off of the tripod. The antenna will be on top of a 5 foot of water pipe above the rotor. It should be very sturdy and will be at ~ 10 feet off the roof. The HamM should have no problem supprting the antenna un-guyed 5 feet above it.

I think this makes sense.... yes, I do like to plan and think out everything before I do it. I just did not foresee the interaction between the antenna and my house!
See any flaws?

If that is not high enough I will have to live with it. The SWR at worst case is livable now and can easily be tuned out with the rigs tuner. Any improvement will help.

In the process, I am changing the rotor to a HamM (the rotor up there now is a TR-44? Smaller than a HamM and no brake). The HamM has been in storage for a few years (Yes, it works, I have thoroughly tested it.). Putting in new feed line, and new rotor cable and the balun/choke at the bottom of the antenna.

Yes I will call Mike to discuss.

Thanks for all of your input. This is a great experience. My first new antenna in many years. So far the Hex has produced outstanding results. Fabulous sensitivity and the front to side / back ratio is outrageous. Station completely disappear if I am not aimed at them!

73
Den

>From: "w6hb" <w6hb@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] Re: Two Hexbeam Questions

>Date: Mon, 13 Oct 2003 20:37:33 -0000
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_____
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FREE! http://msnmessenger-download.com

1698. center feed

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-15 15:33:43 UTC
From: K8NKE
Topic: 1698 Message: 1698

i see some run the leads that connect the elements together on the outside of the center support and some put them on the inside. was wondering if it makes any difference. it would be a lot less trouble to run them on the out side.
TIA k8nke dale

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Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.525 / Virus Database: 322 - Release Date: 10/9/03

[Non-text portions of this message have been removed]

1699. Re: [hex-beam] center feed

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-15 17:02:03 UTC
From: Boian Petkov
Topic: 1698 Message: 1699

Hi Dale,
My home brew 5 band hexbeam have a twin line outside of the center support. Feeder is connected at
the bottom side (10m element). I erected that antenna a year ago - no problems at all.
73 de Bob LZ2BE

--- K8NKE <dmess@...> wrote:
> i see some run the leads that connect the elements together on the outside
> of the center support and some put them on the inside. was wondering if it
> makes any difference. it would be a lot less trouble to run them on the out
> side.
> TIA k8nke dale

_____
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1700. Re: Two Hexbeam Questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-15 22:20:51 UTC
From: w6hb
Topic: 1689 Message: 1700

Hi Den,

Sounds doable. As long as the tripod and mast to the bottom of the rotator is solid, it sounds like it should work. Obviously the VSWR issues are having negligible effects on the performance. That is common news. The only other issue some observe when near field metals impact the VSWR readings is that susceptibility for RFI may be more prevalent due to the coupling into the surrounding conductors. Let me know how eveerything goes.

73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "Dennis Spiess" <DenS1950@H...> wrote:
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> and my house!
> See any flaws?
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> If that is not high enough I will have to live with it. The SWR at worst
> case is livable now and can easily be tuned out with the rigs tuner. Any
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> a TR-44? Smaller than a HamM and no brake). The HamM has been in storage for
> a few years (Yes, it works, I have thoroughly tested it.). Putting in new
> feed line, and new rotor cable and the balun/choke at the bottom of the
> antenna.
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> Yes I will call Mike to discuss.
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> Thanks for all of your input. This is a great experience. My first new
> antenna in many years. So far the Hex has produced outstanding results.
> Fabulous sensitivity and the front to side / back ratio is outrageous.
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1701. Re: Two Hexbeam Questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-15 22:31:24 UTC
From: w6hb
Topic: 1689 Message: 1701

Den,

If the Palomar balun kit uses the split cores with the snap-on Nylon covers, cut off the "tits" that keep the assemblies from sliding on the jacket of the coax. Secure the toroids with a full over wrap of a good vinyl tape and seal it with PVC or CPVS cement. You can also used the black UV-resistent tyraps to center the stack where you want it on the coax just below the Hex plate. If you leave the "tits" on they will eventually wear through the jacket and allow water into the coax.

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1702. HXL-17 monobander for 17M

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-16 00:48:26 UTC
From: na1a2001
Topic: 1702 Message: 1702

Performance is simply amazing. I can work the DX much easier than with my previous 2 element full size 5 bander cubical quad. I can receive signals that my Carolina Windom cannot or bearely audible. SWR is pure flat. F/B is about 2-3 S units. You simply have to try one out to believe it. Go to my website at http://www.qsl.net/na1a/Hexbeam/ to see pictures.
Any questions, feel free to e-mail me.

1703. Re: [hex-beam] Digest Number 420

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-16 13:43:13 UTC
From: Dirk
Topic: 1703 Message: 1703

hi den never use a mast longer than 4 feet above any rotor, it put to much strain on the rotor bearings. sorry to have to give you this info den but i know of many who had problems from using a long mast. vy dirk

1704. Re: Two Hexbeam Questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-17 11:52:40 UTC
From: Dennis Spiess
Topic: 1689 Message: 1704

Doug,
The palomar kit is torroids that slip over the coax and are held on
by shrink wrap. I will put a layer of good tape over the wrap.
I have seen some RFI from the Hex where there was none before. I
fogured it was from the either the feed line or the coupling.
Hopefully it will get better once I raise things a bit on Saturday.
73 Den

--- In hex-beam@yahoogroups.com, "w6hb" <w6hb@a...> wrote:
> Den,
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> If the Palomar balun kit uses the split cores with the snap-on
Nylon
> covers, cut off the "tits" that keep the assemblies from sliding on
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> FB-
> > >77-
> > > > >1024 cores on the coax just below the Hex's base plate. This
> may or
> > > > >may not have a major affect on the VSWR readings. For more
> > > > >detail on this search the archives or contact Barry, W4WB.
> Keep us
> > > > >posted on your findings for further support.
> > > > >
> > > > >73 / Doug / W6HB
> > > > >
> > > > >
> > > > >
> > > > >--- In hex-beam@yahoogroups.com, "Dennis Spiess"
> <DenS1950@H...>
> > > > >wrote:
> > > > > > I just put up the 5 band HexBeam # 298 and have two
> questions
> > >for
> > > > > > this group. I will call for tech assistances too!

> > > > > >
> > > > > > 1.) The antenna is tuning out of the band plan.... 2.0:1
> band
> > >edges
> > > > > > are: 14.05 - 14.50 (>2.0:1 below 14.05), 18.70 - 18.94,
> 21.00 is
> > > > >OK,
> > > > > > 24,95 - 26.128, 28 is OK.
> > > > > > Any ideas how to tune to the bands?
> > > > > >
> > > > > > 2.) I do not have a balun / choke on the feedline. Will
this
> > > > >possible
> > > > > > help? Where should the choke be located? Right at the feed
> > >point or
> > > > > > below the spreader?
> > > > > >
> > > > > > The antenna is at 25 feet above ground. ~5 feet over the
> roof
> > >on a
> > > > > > tripod. Feed Line drops almost vertcally to the ground
then
> > >into a
> > > > > > basement shack.
> > > > > >
> > > > > > Thanks for your help
> > > > > > Den
> > > > >
> > > >
> > > >
> _____
> > > > Instant message with integrated webcam using MSN Messenger
6.0.
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> > >it now
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1705. New pictures in photomap PA2JJB

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-17 21:08:06 UTC
From: PA2JJB
Topic: 1705 Message: 1705

Hello everyone,
Put some new pics in my map. Could'nt find the right U-bolts; so I make them by myself. If you like to make those U-bolts by yourself, remember its cost you lots of time and nervs hi hi.
But after a evening and a morning I had make 12 U-bolts, not exactly the same in shape, but they do their job very well. I make them of 1/4 inch wire-piece a 3 foot long.
Yesterday I bought the last 3 bamboo's so this afternoon I was able to assemble my HEX-beam for the first time, to see if all my work was done well. Need some suggestions how i put my rotorpipe to the HEX-beam. The underside off my centerpipe is equal to the underside of the centerhub. Maybe I must put a smaller PVC-pipe in the centerhub and fix it with some screws.
My next step is to paint my centerhub in a gray-color so it will not be seen from the ground,
Then the trickyest part of all is to bend the bamboos in the right shape; but I have get some good suggestions from my collega Lourens PH0DX; and then it must be very easy to bent all 6 bamboos at the same time. He will write about that soon.
OK folks, hope I have informed you enough, and let you see and know what the next steps are in assembling this beautiful beam.

73's from
Jan de PA2JJB Texel-Island IOTA EU038

1706. HX-5Bi "Attaboy"

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-19 22:21:23 UTC
From: w6hb
Topic: 1706 Message: 1706

Here is a nice writeup I found on the Eham Elmer's forum posted by a very active amateur who has listened to many Hexbeams without having yet owned or operated one.

RE: Best antenna for the casual DX operator
Reply
by WB2WIK on October 17, 2003

I don't own one, but based on over-the-air signals I hear and work daily on the upper HF bands (20~10m), I can't help but recommend the 5-band Hex Beam (Traffie Technology). They are small, very lightweight, easy to rotate (no boom, so they can be turned by a rotor having no brake) and just seem to generate enormous signals, compared to stations in the same areas using other "small" antennas (MA5B, verticals, dipoles, inverted vees, etc). The difference is rather staggering, and if you're very active on the air, you'd already know it.

I make about 20~100 contacts daily, depending on the day, the propagation, and how busy I am! Usually about 20 QSOs after work and before dinner each weekday, and about 100 QSOs per day on weekends, just casually operating, DXing, ragchewing. I always ask about the other station's antenna (I'm much more interested in that than his equipment), and take prolific notes.

The strongest signals from any area always come from the "big aluminum" guys with huge beams on big towers, and there's almost no exception to this. The smallest signals from those same areas come from small antenna systems, indoor systems, low dipoles, poorly installed verticals and so forth. In between are stations using smaller beams, lower towers, and better engineered wire and vertical antenna systems.

When I consider space/weight/ease of installation/ease of rotation/wind loading and other factors, I have to conclude the Hex Beams may well be the best antennas on the market for those with limited space not wishing to install "heavy hardware." And, I don't even own one! I'm just going by how they sound on the air.

I do use beams on HF, and I'm sure I always will, but currently the most intriguing beams on the market (for me), and ones I do not yet own but *definitely will* someday soon are the Hex Beams and the Fluid Motion SteppIR beams. Both seem to work splendidly for their light weight, etc. Neither are "cheap," but, then, the antennas do a lot more work than the radio equipment does....

WB2WIK/6

1707. Re: [hex-beam] HX-5Bi "Attaboy"

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-20 01:33:39 UTC
From: NA1A
Topic: 1706 Message: 1707

Thanks for forwarding the message.
----- Original Message -----
From: w6hb
To: hex-beam@yahoogroups.com
Sent: Sunday, October 19, 2003 3:21 PM
Subject: [hex-beam] HX-5Bi "Attaboy"

Here is a nice writeup I found on the Eham Elmer's forum posted by a very active amateur who has listened to many Hexbeams without having yet owned or operated one.

RE: Best antenna for the casual DX operator
Reply
by WB2WIK on October 17, 2003

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WB2WIK/6

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[Non-text portions of this message have been removed]

1708. Re: [hex-beam] HX-5Bi "Attaboy"

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-20 12:01:18 UTC
From: Jason Hissong
Topic: 1706 Message: 1708

I have cooresponded with WB2WIK/6 in the past and he seems quite knowledgable about antennas. In fact, I wrote a vertical article for eham.net last year based on an article he wrote. (http://www.eham.net/articles/5225)

It's great to see this type of praise for the Hexbeam as the guy does not even own one.

73,
Jason

I have not been on the air much because I have been working on my amateur telescope... :(

w6hb wrote:
> Here is a nice writeup I found on the Eham Elmer's forum posted by a
> very active amateur who has listened to many Hexbeams without having
> yet owned or operated one.
>
>
> RE: Best antenna for the casual DX operator
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>
> WB2WIK/6
>
>
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>
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> <http://docs.yahoo.com/info/terms/>.

--
Jason Hissong
http://www.n8xe.com
http://www.jasonhissong.com

1709. Re: Two Hexbeam Questions --> Update

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-20 12:17:44 UTC
From: Dennis Spiess
Topic: 1689 Message: 1709

All,
We, my XYL (N2RDX), and I had a very successful Saturday. The Hex beam was successfully raised to 10 ft. over the roof, new coax, balun, rotor, rotor wire and guys.
The results are almost perfect. The SWR is 2.0:1 or less for all bands, except 12M, at the bottom of the band and drops rapidly to < 1.5:1 for almost the entire band. The SWR changes less than 0.1 for the entire rotation around the compass! Inter-actions seem to be cured.
On 12M the SWR is still high for about half of the band then it drops off rapidly to 1.2:1. Once I have the time to plot out the exact curve I will call Mike Traffie and see if he has any ideas. My rigs tuner can easily bring the SWR down and deliver full power at 12M.
I want to thank you all for your input, especially W6HB who has stuck with me all week as I tried to finalize my plan of attack.
We re-insatlled our Butternut 8 band vertical, now slimmed down to 3 bands (80, 40 and 30), on Sunday ... a good honest vertical... makes us 8 band radio active on HF (finally).
We can't wait until the November SS.
73
Den

...
thread deleted for clarity

1710. NOVSS

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-20 23:52:57 UTC
From: Jason Hissong
Topic: 1710 Message: 1710

Hi guys,

Well, Sweepstakes is right around the corner. I have not decided whether I will be operating QRP (for the CW contest) or not. My K2 would love to stretch her legs at working the contest. But her big brother, the IC746, is staring at me thinking, "You are going to use ME in the contest right?!?"

Either way... the Hexbeam will be active either way. I was so bumbed that I was not able to use it last year (I got it in September but did not put it up on the tower until Christmas Eve!)

I hope to work some of you in the contests this year...

73 es GL!
--
Jason Hissong
http://www.n8xe.com
http://www.jasonhissong.com

1711. Jamboree-on-the-Air with Hex-Pac

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-21 13:28:32 UTC
From: James Olson
Topic: 1711 Message: 1711

We had a great weekend participating in the 46th annual Jamboree-on-the-Air International Scouting event. Boy Scout Troop 405 from Powder Springs, Georgia, hosted our Cub Scout Pack 702 station at the Kennesaw Mountain Battlefield Park. We were on the air with battery power for 7 hours with a FT897 and Hex-Pac portable @ 30 feet.

If you've ever given a demonstration of ham radio to the public, you know that calling stations with no response is not impressive to your guests. But the Hex-Pac came through like a champ! We had a 1 hour long qso with a GX0SCR to the delight of all present at the time. Over the course of the day we talked to Scout groups in England, the Netherlands, Belgium, Slovenia, and 7 different states.

The portability of the antenna and mast is terrific. This is now the 3rd Scouting event that we've used the Hex-Pac at, and look forward to future adventures.

James Olson, W4JO
Powder Springs, GA

[Non-text portions of this message have been removed]

1712. Re: HX-5Bi "Attaboy"

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-21 16:01:37 UTC
From: wa4znj
Topic: 1706 Message: 1712

I would agree that the Hex-Beam is an excellent antenna. Although I do not own one, I have worked many on the air. When I was looking for a small antenna, I really considered this antenna, but I did not purchase it because of the price. I made a list of all the small beams including the TGM Hybrid Quad, CC MA5B, Force 12 C3SS, Lighting Bolt 2 element Quad, Tennadyne T6 Log Periodic, and CC A3S. I checked the opinions on eHam, and spoke to hams who use these antennas. Most hams loved the antenna they were using, but I was able to rule out some of the antenna due to the size of my lot. After considering my space for an antenna, I narrowed my list to the Hex-Beam, MA5B, and the TGM Hybrid Quad. Since I wanted gain on 17 meters, this left the Hex-Beam and the Hybrid Quad. I really wanted the Hex-Beam, but I could not justify paying $900 for a 2 element beam.
I think Mike has a good product, but he has priced it out of the market for the average ham. I have spoken to many people who would have purchased a Hex-Beam, but they were turned off by the price.

If Mike would reduced his price to the $300-$400 range, I am sure he would triple his sales IMHO. With the economy in a slump, hams are not going to fork over that kind of money for an antenna. I know he has sold over 300 of these antenna since he introduced them, but with a little marketing and a major price cut, his sales number could be approaching 1000 in a year's time.

So how is my TGM Hybrid Quad antenna working? Well so far, I have worked 202 countries on SSB and PSK31 in the last 1.5 years, and I saved $600 by not buying the Hex-Beam. Although the Hex-Beam may perform slightly better than my Quad, I am satified with my choice. I may not break every pileup, but I usually get the contact.

Jeff

>
>
> RE: Best antenna for the casual DX operator
> Reply
> by WB2WIK on October 17, 2003
>
> I don't own one, but based on over-the-air signals I hear and
work
> daily on the upper HF bands (20~10m), I can't help but recommend
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> 5-band Hex Beam (Traffie Technology). They are small, very
> lightweight, easy to rotate (no boom, so they can be turned by a
> rotor having no brake) and just seem to generate enormous

signals,
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antennas
> (MA5B, verticals, dipoles, inverted vees, etc). The difference
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> rather staggering, and if you're very active on the air, you'd
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> WB2WIK/6

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>
> [Non-text portions of this message have been removed]

1713. Re: [hex-beam] Re: HX-5Bi "Attaboy"

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-21 18:19:19 UTC
From: Eric Carling
Topic: 1706 Message: 1713

Being that this is a Hexbeam Reflector and not a TGM Reflector, and I would not dream of writing a such a message to it if there were one, you should accept the following repudiation.

You are overlooking several salient points. First, your Hybrid Quad is not a once in a lifetime purchase unlike a Hexbeam. Users' reports indicate substantial wear which begins to show in the 3 to 5 year period. Yours may suffer similarly to include electrical breakdown of the coils and mechanical breakdown of the rear quad section. Long term you will not be thinking it was cheaper than a hexbeam.

Secondly, a tripling of sales is probably not top of Mike's list of priorities. I would hazard a guess that illustrious position goes to making a profit. We don't know the costs involved per antenna but you don't need a calculator to figure 3x a loss = a big loss.

So its patently incorrect to state that you saved $600 when in fact in the next 10 years you will have cost yourself money. It is incorrect to state that the Hexbeam may be a little better than your TGM when in fact it is better now and its going to be a whole lot better 3 years from now. The only thing you got right is that you're satisfied with it.

Eric.

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: Tuesday, October 21, 2003 17:48:26
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: HX-5Bi "Attaboy"

I would agree that the Hex-Beam is an excellent antenna. Although I do not own one, I have worked many on the air. When I was looking for a small antenna, I really considered this antenna, but I did not purchase it because of the price. I made a list of all the small beams including the TGM Hybrid Quad, CC MA5B, Force 12 C3SS, Lighting Bolt 2 element Quad, Tennadyne T6 Log Periodic, and CC A3S. I checked the opinions on eHam, and spoke to hams who use these antennas. Most hams loved the antenna they were using, but I was able to rule out some of the antenna due to the size of my lot. After considering my space for an antenna, I narrowed my list to the Hex-Beam, MA5B, and the TGM Hybrid Quad. Since I wanted gain on 17 meters, this left the Hex-Beam and the Hybrid Quad. I really wanted the Hex-Beam, but I could not justify paying $900 for a 2 element beam.
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1714. Just a comment

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-21 18:53:40 UTC
From: Herbert Meiselman
Topic: 1714 Message: 1714

Dear All:

Although I own a Hexbeam (#188) I have been fairly "silent" on this email group. However, the very recent exchanges regarding TGM vs. Hexbeam have prompted me to offer the following comments.

Prior to owning my 5-band Hexbeam I purchased and installed the 5-band TGM. The fellow who makes/sells them was very cooperative and helpful, and I was able to contact him with ease. Nevertheless, the antenna was extremely difficult to tune and use. Lots of playing with the 4 sets of rods per band and lots of interaction between the bands. Further, the frequency range for SWR less than 2:1 was very limited. Sold it without any tears!

I am very pleased with my Hexbeam: 1) easy to install; 2) no tuning at all; 3) SWR less than 2:1 on every on SSB region of every band; 4) no evidence of changes over a 1 1/2 year period of use. Mike was fantastic to work with and was willing to help and hold my hand when I had questions. By the way, the MFJ antenna tuner that I bought to use with my TGM now functions only as a switch...dummy load for tuning the amp, then back to direct connection to Hexbeam. Thus, never use the "C and H" parts of the tuner with the Hexbeam ...only its switch.

Last comment: my wife has twice said that the Hexbeam is "not that bad looking"...a positive comment from a wife who does not deal at all with ham radio.

OK...now back into my shell.

73,

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
University of Southern California
Keck School of Medicine
1333 San Pablo Street, MMR 626
Los Angeles, CA 90033
(323) 442-1268
(323) 442-2283 [FAX]
meiselma@...

1715. Re: [hex-beam] Re: HX-5Bi "Attaboy"

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-21 20:10:45 UTC
From: NA1A
Topic: 1706 Message: 1715

I see all the points Jeff (WA4NZI) noticed about the Hex-Beam especially the cost. I agree that the price Mike wants is high when compare to others. However, let me just say this: I've had a three element Cubex quad for 10, 15, 20m up for three years back in the early 80's, then a Mosley PRO-57B up at 75 ft for two years, after that, a Force 12 C4 also up at 75ft for two years. My most recent "big gun" antenna was a 5 bander full size 2 element cubical quad by Lightning Bolt up for 2.5 years. I recently had to take it down due to neighbor complaint (and I won't go into that here). After taken down the Lightning Bolt antenna, I put up a TGM MQ-26 and kept it up at 50 ft for a two weeks. The results was mostly disappointments. I guess because I was spoiled by the Lightning Bolt.
I always keep at least one or two "reference antenna" to compare my beam with. They usually are simple dipoles, inverted-V's and/or verticals. For the last 2 years, I have been using a Carolina Windom and an R-7 as my "reference antenna". Never ever in the past that I have lost a signal by going from the beam to the "reference antenna". In all cases, whenever I heard a signal with the beam, I could still hear it with the "reference antenna". They were of course, not as strong, but never lost the signal. With the Hex-Beam, many times (not always, but often enough) when I switch to my "reference antenna (ground mounted cushcraft R-7 and Carolina Windom at 50 ft), that signal was un-detectable. It was like no one was using the frequency. When switched back to the Hex-Beam, that station was there with yacking away. I'm not talking about an S-2 or 3 signal. I am talking about decent S-6 to 7 signals on Hex-Beam and can not be heard with the "reference antenna". Until today, I'm truly convinced that my Hex-Beam outperforms my 2 element Lightning Bolt quad at 50 ft. The Lightning Bolt quad was a heck of an antenna. It was at least as good as if not better than the Force 12 C4, for sure better than the Mosley Pro-57B, and absolutely beats the TGM hands down, no questions. That was why I only kept the TGM up for two weeks...
My experience is that NOTHING, none of the above mentioned antenna yield the performance that I am getting with the Hex-Beam. Those who have talked to me through the years know my signal with various antennas that I have had. Their comments now is that they have never heard me as loud and strong. The audio is more pronounced on the Hex-Beam than with any of my previous beams.
I feel that if you really want to know the real performance of the Hex-Beam, you simply have to try it. Once you have used one, the cost of the antenna is merely a shadow in the back.
BTW, WA4ZNI or ZNJ who name is "jeff" is not a valid callsign in the FCC database.
Cheers!
Duke - NA1A

----- Original Message -----
From: wa4znj
To: hex-beam@yahoogroups.com
Sent: Tuesday, October 21, 2003 9:01 AM
Subject: [hex-beam] Re: HX-5Bi "Attaboy"

I would agree that the Hex-Beam is an excellent antenna. Although I do not own one, I have worked many on the air. When I was looking for a small antenna, I really considered this antenna, but I did not

purchase it because of the price. I made a list of all the small beams including the TGM Hybrid Quad, CC MA5B, Force 12 C3SS, Lighting Bolt 2 element Quad, Tennadyne T6 Log Periodic, and CC A3S. I checked the opinions on eHam, and spoke to hams who use these antennas. Most hams loved the antenna they were using, but I was able to rule out some of the antenna due to the size of my lot. After considering my space for an antenna, I narrowed my list to the Hex-Beam, MA5B, and the TGM Hybrid Quad. Since I wanted gain on 17 meters, this left the Hex-Beam and the Hybrid Quad. I really wanted the Hex-Beam, but I could not justify paying $900 for a 2 element beam.
I think Mike has a good product, but he has priced it out of the market for the average ham. I have spoken to many people who would have purchased a Hex-Beam, but they were turned off by the price.

If Mike would reduced his price to the $300-$400 range, I am sure he would triple his sales IMHO. With the economy in a slump, hams are not going to fork over that kind of money for an antenna. I know he has sold over 300 of these antenna since he introduced them, but with a little marketing and a major price cut, his sales number could be approaching 1000 in a year's time.

So how is my TGM Hybrid Quad antenna working? Well so far, I have worked 202 countries on SSB and PSK31 in the last 1.5 years, and I saved $600 by not buying the Hex-Beam. Although the Hex-Beam may perform slightly better than my Quad, I am satified with my choice. I may not break every pileup, but I usually get the contact.

Jeff

>
>
> RE: Best antenna for the casual DX operator
> Reply
> by WB2WIK on October 17, 2003
>
> I don't own one, but based on over-the-air signals I hear and
work
> daily on the upper HF bands (20~10m), I can't help but recommend
the
> 5-band Hex Beam (Traffie Technology). They are small, very
> lightweight, easy to rotate (no boom, so they can be turned by a
> rotor having no brake) and just seem to generate enormous
signals,
> compared to stations in the same areas using other "small"
antennas
> (MA5B, verticals, dipoles, inverted vees, etc). The difference
is
> rather staggering, and if you're very active on the air, you'd
> already know it.
>

> I make about 20~100 contacts daily, depending on the day, the
> propagation, and how busy I am! Usually about 20 QSOs after work
and
> before dinner each weekday, and about 100 QSOs per day on
weekends,
> just casually operating, DXing, ragchewing. I always ask about
the
> other station's antenna (I'm much more interested in that than
his
> equipment), and take prolific notes.
>
> The strongest signals from any area always come from the "big
> aluminum" guys with huge beams on big towers, and there's almost
no
> exception to this. The smallest signals from those same areas
come
> from small antenna systems, indoor systems, low dipoles, poorly
> installed verticals and so forth. In between are stations using
> smaller beams, lower towers, and better engineered wire and
vertical
> antenna systems.
>
> When I consider space/weight/ease of installation/ease of
> rotation/wind loading and other factors, I have to conclude the
Hex
> Beams may well be the best antennas on the market for those with
> limited space not wishing to install "heavy hardware." And, I
don't
> even own one! I'm just going by how they sound on the air.
>
> I do use beams on HF, and I'm sure I always will, but currently
the
> most intriguing beams on the market (for me), and ones I do not
yet
> own but *definitely will* someday soon are the Hex Beams and the
> Fluid Motion SteppIR beams. Both seem to work splendidly for
their
> light weight, etc. Neither are "cheap," but, then, the antennas
do a
> lot more work than the radio equipment does....
>
> WB2WIK/6
>
>
>
>
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>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
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>
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Service.
>
>
>
> [Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

1716. Price of Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-22 02:14:07 UTC
From: Jason Hissong
Topic: 1716 Message: 1716

Good points from Eric. As far as price, think about it:

A Quad and or TGM antenna may not last long (hence the points Eric made). Also, look at the F12 antenna... it is a good antenna and guess what... it is in the same price range!!! (The 5 bander with gain on ALL 5 BANDS is the one I refer to). So, you could get a F12... but the turning radius is large AND it is heavy.

Anyways... if you are happy with your TGM, then that is a good thing. However, I think you would have been better and saved up for a Hexbeam. I still love mine... and my earlier comments about a Quad I retract as the quad would not have lasted as long as my Hexbeam.

73...
--
Jason Hissong
http://www.n8xe.com
http://www.jasonhissong.com

1717. Re: WA4ZNJ

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-22 12:26:42 UTC
From: w4wb
Topic: 1706 Message: 1717

--- In hex-beam@yahoogroups.com, "NA1A" <na1a@n...> wrote:
<snip>
BTW, WA4ZNI or ZNJ who name is "jeff" is not a valid callsign in the FCC database.
> Cheers!
> Duke - NA1A
>
Good point Duke. I have search tools for older calls that allow relating older calls to those having a Vanity call back till about 1990. There is no WA4ZNJ. I also directly email Jeff and have received no reply. I also note that he joined the Hex-Beam Group less than an hour before he made this post. He may have been reading the posts all along and not joined since I allow the archieves to be open to all to read. Or perhaps there is another reason behind his posting. Hope Jeff will clarify who he is or else his entire posting becomes a mystery.

73,
Barry - W4WB
Moderator

1718. Re: WA4ZNJ

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-22 21:03:03 UTC
From: ke4vpe
Topic: 1706 Message: 1718

Hi Barry,

I saw the threads to my post on the Hex-Beam group. As for WA4ZNJ, it is not a valid FCC callsign. I use this email address because my callsign was already in use by someone else. As for the price of the HEX-Beam being reduced to $500, I would have to agree that Mike could sell more antennas. If the the 2 element Lightning Bolt Quad can sell for $289, I do not understand why the Hex-Beam sells for 3 times that amount. I understand that Mike has marketing cost associated with this antenna, but most hams I spoke to think it is an excellent antenna, but the price of ownership is TOO HIGH.

Jeff

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@yahoogroups.com, "NA1A" <na1a@n...> wrote:
> <snip>
> BTW, WA4ZNI or ZNJ who name is "jeff" is not a valid callsign in the
> FCC database.
> > Cheers!
> > Duke - NA1A
> >
> Good point Duke. I have search tools for older calls that allow
> relating older calls to those having a Vanity call back till about
> 1990. There is no WA4ZNJ. I also directly email Jeff and have
> received no reply. I also note that he joined the Hex-Beam Group
> less than an hour before he made this post. He may have been reading
> the posts all along and not joined since I allow the archieves to be
> open to all to read. Or perhaps there is another reason behind his
> posting. Hope Jeff will clarify who he is or else his entire posting
> becomes a mystery.
>
> 73,
> Barry - W4WB
> Moderator

1719. Re: WA4ZNJ

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-22 21:35:22 UTC
From: w4wb
Topic: 1706 Message: 1719

--- In hex-beam@yahoogroups.com, "ke4vpe" <ke4vpe@y...> wrote:
>
> Hi Barry,
>
> I saw the threads to my post on the Hex-Beam group. As for
WA4ZNJ,
> it is not a valid FCC callsign. I use this email address because
my
> callsign was already in use by someone else. As for the price of
> the HEX-Beam being reduced to $500, I would have to agree that Mike
> could sell more antennas. If the the 2 element Lightning Bolt Quad
> can sell for $289, I do not understand why the Hex-Beam sells for 3
> times that amount. I understand that Mike has marketing cost
> associated with this antenna, but most hams I spoke to think it is
> an excellent antenna, but the price of ownership is TOO HIGH.
>
> Jeff

Tnx Jeff. Your current call is N3OP I believe. In any case, keep on
contributing to the list.

73,
Barry - W4WB

1720. Re: [hex-beam] Digest Number 426

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-23 11:26:06 UTC
From: Eric S. Johansson
Topic: 1720 Message: 1720

hex-beam@yahoogroups.com wrote:
>
> Message: 2
> Date: Wed, 22 Oct 2003 21:03:03 -0000
> From: "ke4vpe" <ke4vpe@...>
> Subject: Re: WA4ZNJ
>
>
> Hi Barry,
>
> I saw the threads to my post on the Hex-Beam group. As for WA4ZNJ,
> it is not a valid FCC callsign. I use this email address because my
> callsign was already in use by someone else. As for the price of
> the HEX-Beam being reduced to $500, I would have to agree that Mike
> could sell more antennas. If the the 2 element Lightning Bolt Quad
> can sell for $289, I do not understand why the Hex-Beam sells for 3
> times that amount. I understand that Mike has marketing cost
> associated with this antenna, but most hams I spoke to think it is
> an excellent antenna, but the price of ownership is TOO HIGH.

the answer to your question can be found in the amount of manual processes used during manufacture and the amount of handholding Mike gives to amateurs after the sale. For example, a hex beam has 10 pieces of wire with four measured segments each. There are four loops formed in the wire at each point. Each of the spars must have six attachment points (1 for each band plus the top strain relief rope). The base plate has numerous holes of different sizes as well as a mounting point for the antenna mast (welded?). Then if I understand the advertising correctly, the whole thing is assembled, tested and then disassembled, packaged and shipped. If you looked for fingerprints from Mike and his staff, they would probably be three or four deep on all of the components.

from an RF perspective, the hex beam sounds like a wonderful little antenna. However, from a manufacturing perspective it is probably a nightmare. The only way Mike could make them significantly cheaper is to farm out the manufacturing to some little slave labor camp in China and I hope he has enough integrity to not do so.

Now it is possible to reduce costs manufacture through clever designs and processes but it might not be practical to do so until the volume gets up. For example, one could use special fittings and clamps to attach the wire to the spars. One could use painted on markers for assembly indicators. But all of these require a certain degree of volume before it becomes cost-effective.

Now I just went to the hex beam site to verify a few things before I spouted off and it looks like he's trying to explain/justify/compare costs. And I think he's doing a good job. He also has a 40 m version (ooh mama) with the 19 foot turning radius which probably means the 80 m version would be slightly smaller than my house is long. Heaven help the neighbors.

I am going to try and build myself a clone just so I can get a feel for how this type of antenna works. I must admit to being torn between the steppir and the hexbeam. Both have their advantages and disadvantages. But I'm sure whichever one I get will be just marvie and provide many years of enjoyment.

---eric

--
Speech recognition in use. Incorrect endings, words, and case is closer than it appears

1721. Anyone have a HX5Bi for Sale ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-23 19:58:11 UTC
From: janettolley
Topic: 1721 Message: 1721

My boyfriend wants a Hexbeam but I told him the over $800 price tag is crazy.

Does anyone have a HX5Bi (thing this is correct) for Sale ?

Thank You.

Janet

1722. Re: Digest Number 426

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-24 09:51:07 UTC
From: dl7io
Topic: 1720 Message: 1722

Hello,
regarding this discussion I would like to give Mike a helping hand.
Another reason for the high price/costs is that the spreaders Mike is using are much, much more expensive. They are conical and not like a tube.
I meanwhile build a couple of beams myself and use also custom made conical spreaders instead of combined tubes like most homebrewers do.
And only the spreaders costs more in the purchasing process than the whole quad in the sales.
Those conical spreaders should be used to get the antenna into the right shape.
And as somebody already said before there is much more handwork on this beam. The ones that tried to build this antenna may have an idea of the needed time to get on beam ready. Even if you are more experienced with the process it takes about a whole day per antenna and 1 man. And if this is his job, he of course needs some earnings out of this. And the only money he can take of of the price are his earnings. I'm sure he can't sell that many antennas more for less to make the same money. If you are cutting your marging (not the price) by half you need to sell twice as much to have the same money left...
regards Holger, DL7IO
PS. Moved to the new home now and installed my beam on the roof first (9m) to be back on the bands. Because it is already cold here (minus degrees!) I have to delay building the towers to the spring. But I started modelling a multiband version for 40m and up.

1723. Re: Anyone have a HX5Bi for Sale ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-24 09:53:39 UTC
From: dl7io
Topic: 1721 Message: 1723

I know of a HX5B in Germany that is for sale. The HAM build a 3/4
element quad and replaced the Hexbeam with it.
It is a seriell number in the 40's or 50's.
Holger, DL7IO

--- In hex-beam@yahoogroups.com, "janettolley" <janettolley@y...>
wrote:
> My boyfriend wants a Hexbeam but I told him the over $800 price tag
> is crazy.
>
> Does anyone have a HX5Bi (thing this is correct) for Sale ?
>
> Thank You.
>
> Janet

1724. Re: Anyone have a HX5Bi for Sale ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-24 16:25:37 UTC
From: janettolley
Topic: 1721 Message: 1724

How can my boyfriend get in touch with him ?
My boyfriend's email address is LarryD@...

Thank you very much.

Janet

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> I know of a HX5B in Germany that is for sale. The HAM build a 3/4
> element quad and replaced the Hexbeam with it.
> It is a seriell number in the 40's or 50's.
> Holger, DL7IO
>
> --- In hex-beam@yahoogroups.com, "janettolley" <janettolley@y...>
> wrote:
> > My boyfriend wants a Hexbeam but I told him the over $800 price
tag
> > is crazy.
> >
> > Does anyone have a HX5Bi (thing this is correct) for Sale ?
> >
> > Thank You.
> >
> > Janet

1725. RE: [hex-beam] Re: Anyone have a HX5Bi for Sale ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-25 00:20:11 UTC
From: Greg Fischer
Topic: 1721 Message: 1725

Shipping from there would cost about as much as if you had bought a new one.

GL
Greg

-----Original Message-----
From: janettolley [mailto:janettolley@...]
Sent: Friday, October 24, 2003 9:26 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Anyone have a HX5Bi for Sale ?

How can my boyfriend get in touch with him ?
My boyfriend's email address is LarryD@...

Thank you very much.

Janet

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> I know of a HX5B in Germany that is for sale. The HAM build a 3/4
> element quad and replaced the Hexbeam with it.
> It is a seriell number in the 40's or 50's.
> Holger, DL7IO
>
> --- In hex-beam@yahoogroups.com, "janettolley" <janettolley@y...>
> wrote:
> > My boyfriend wants a Hexbeam but I told him the over $800 price
tag
> > is crazy.
> >
> > Does anyone have a HX5Bi (thing this is correct) for Sale ?
> >
> > Thank You.
> >
> > Janet

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[Non-text portions of this message have been removed]

1726. Re: Anyone have a HX5Bi for Sale ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-25 00:58:47 UTC
From: t_ashland
Topic: 1721 Message: 1726

Janet,
I bought a new Hexbeam 5Bxi from Burghardt Amateur in SD for around
$700.
73,
Terry, WK0F

--- In hex-beam@yahoogroups.com, "janettolley" <janettolley@y...>
wrote:
> My boyfriend wants a Hexbeam but I told him the over $800 price tag
> is crazy.
>
> Does anyone have a HX5Bi (thing this is correct) for Sale ?
>
> Thank You.
>
> Janet

1727. Re: [hex-beam] Anyone have a HX5Bi for Sale ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-26 01:55:24 UTC
From: Ed Fox
Topic: 1721 Message: 1727

Sorry Janet, I won't part with mine but I wish I had a girlfriend like you
:-) elf

>From: "janettolley" <janettolley@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] Anyone have a HX5Bi for Sale ?
>Date: Thu, 23 Oct 2003 19:58:11 -0000
>
>My boyfriend wants a Hexbeam but I told him the over $800 price tag
>is crazy.
>
>Does anyone have a HX5Bi (thing this is correct) for Sale ?
>
>Thank You.
>
>Janet
>
>
>

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1728. Re: [hex-beam] Anyone have a HX5Bi for Sale ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-26 13:46:54 UTC
From: Jason Hissong
Topic: 1721 Message: 1728

Or an XYL like that! My XYL seems to think that I want clothes :)

Actually, to her credit.. she was up on the roof when I was installing
the Hexbeam (http://www.n8xe.com/radio/tower_project.html) hehehehe

73 gang...

Jason
(It's the most wonderful time, of the year..... contest season!)

Ed Fox wrote:
> Sorry Janet, I won't part with mine but I wish I had a girlfriend like you
> :-) elf
>
>
> >From: "janettolley" <janettolley@...>
> >Reply-To: hex-beam@yahoogroups.com
> >To: hex-beam@yahoogroups.com
> >Subject: [hex-beam] Anyone have a HX5Bi for Sale ?
> >Date: Thu, 23 Oct 2003 19:58:11 -0000
> >
> >My boyfriend wants a Hexbeam but I told him the over $800 price tag
> >is crazy.
> >
> >Does anyone have a HX5Bi (thing this is correct) for Sale ?
> >
> >Thank You.
> >
> >Janet
> >
> >
> >
>
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163/R=0/SIG=11n0nglqg/*http://www.ediets.com/start.cfm?code=30510&media=zone>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com

>
>
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> <http://docs.yahoo.com/info/terms/>.

--
Jason Hissong
http://www.n8xe.com
http://www.jasonhissong.com

1729. Re: [hex-beam] Digest Number 429

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-26 18:52:49 UTC
From: Dirk
Topic: 1729 Message: 1729

hi janet if you cant find one and ur friend has the time build one . it really cant be that hard can it ?? vy dirk

1730. Rotorplate

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-26 20:11:10 UTC
From: PA2JJB
Topic: 1730 Message: 1730

Hello everyone interested in buiding a HEX-Beam.
Uploaded a few more pics of the progress of my HEX-Beam. A friend of my make pipe with a plate in it to connect the hub to the rotorplate.So this last weekend i make some progress to let this thing turning and next step is to bow the bamboos and connect the wires to them.

Everybody building this antenna wishing lots of pleasure and patience to bring it all to good end!!!

73's de Jan PA2JJB Texel-Island EU-038

1731. Re: Anyone have a HX5Bi for Sale ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-27 17:07:42 UTC
From: janettolley
Topic: 1721 Message: 1731

They do not sell that antenna.
Thanks
Janet

--- In hex-beam@yahoogroups.com, "t_ashland" <t_ashland@y...> wrote:
> Janet,
> I bought a new Hexbeam 5Bxi from Burghardt Amateur in SD for
around
> $700.
> 73,
> Terry, WK0F
>
> --- In hex-beam@yahoogroups.com, "janettolley" <janettolley@y...>
> wrote:
> > My boyfriend wants a Hexbeam but I told him the over $800 price
tag
> > is crazy.
> >
> > Does anyone have a HX5Bi (thing this is correct) for Sale ?
> >
> > Thank You.
> >
> > Janet

1732. Hex Plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-28 04:08:34 UTC
From: n0lot
Topic: 1732 Message: 1732

I am interested in building my own hex beam. Are there any plans out there anywhere?

Paul Christopher

1733. Re: Hex Plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-28 12:43:12 UTC
From: w4wb
Topic: 1732 Message: 1733

Look in the Files area of this Group.
GL,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "n0lot" <n0lot@y...> wrote:
> I am interested in building my own hex beam. Are there any plans
out
> there anywhere?
>
> Paul Christopher

1734. Re: Hex Plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-28 14:12:37 UTC
From: Sieb.
Topic: 1732 Message: 1734

--- In hex-beam@yahoogroups.com, "n0lot" <n0lot@y...> wrote:
> I am interested in building my own hex beam. Are there any plans out
> there anywhere?
>
> Paul Christopher

Look at the website from EI7BA..He describes a 5 band homebrew Hexbeam.
http://www.qsl.net/ei7ba/
Also have a good look at the Photo section in the NG..
Like VE7ASK and John PA2JJB who has recently started building one..
Read some of the posts in the message section,there is alot of info there.
73 de Sieb,,VE3JUA

1735. Re: Anyone have a HX5Bi for Sale ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-31 00:13:13 UTC
From: t_ashland
Topic: 1721 Message: 1735

Sorry for the bad lead, Janet. I bought mine from them. Maybe it
was a demo or a dealer special, who knows? Anyway, good luck with
your searches. I like mine, and my wife doesn't mind the looks of
mine in the backyard either.
73,
Terry, WK0F

--- In hex-beam@yahoogroups.com, "janettolley" <janettolley@y...>
wrote:
> They do not sell that antenna.
> Thanks
> Janet
>
> --- In hex-beam@yahoogroups.com, "t_ashland" <t_ashland@y...> wrote:
> > Janet,
> > I bought a new Hexbeam 5Bxi from Burghardt Amateur in SD for
> around
> > $700.
> > 73,
> > Terry, WK0F
> >
> > --- In hex-beam@yahoogroups.com, "janettolley" <janettolley@y...>
> > wrote:
> > > My boyfriend wants a Hexbeam but I told him the over $800 price
> tag
> > > is crazy.
> > >
> > > Does anyone have a HX5Bi (thing this is correct) for Sale ?
> > >
> > > Thank You.
> > >
> > > Janet

1736. HX5Bi on other bands

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-31 00:17:56 UTC
From: t_ashland
Topic: 1736 Message: 1736

Hi,
I really love my hex! With that said, I am wondering if others have loaded their hexes on 30 or 40? I am using at FT-1000MP and it doesn't quite load up very well with the auto-tuner on 30 for me.
Has anyone used like the LDG tuner with them on the other bands?
Thanks and 73,
Terry, WK0F

1737. 6m Aurora!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-31 02:16:43 UTC
From: Jason Hissong
Topic: 1737 Message: 1737

Hi guys,

Last evening I worked 5 stations using Aurora propagation on 6m with a loaded HX5bi!! Could not believe it. Of course it was cloudy! But clouds did not get in the way of my signal!

73!
--
Jason Hissong
http://www.n8xe.com
http://www.jasonhissong.com

1738. Re: HX5Bi on other bands

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-31 04:38:05 UTC
From: w4wb
Topic: 1736 Message: 1738

--- In hex-beam@yahoogroups.com, "t_ashland" <t_ashland@y...> wrote:
> Hi,
> I really love my hex! With that said, I am wondering if others
have
> loaded their hexes on 30 or 40? I am using at FT-1000MP and it
> doesn't quite load up very well with the auto-tuner on 30 for me.
> Has anyone used like the LDG tuner with them on the other bands?
> Thanks and 73,
> Terry, WK0F

Hi Terry,

Using the tuner in my 1000MP is iffy on 30 and 40 m. Shifting freq
by just 10 kHz can make the difference.

I now use a LDG AT-1000 autotuner with my VL-1000 amp. Now it tunes
the Hex-Beam on 6-80 m FB. I have used the VL-1000 on 40 m a few
times, but limit the power to a couple of hundred watts since I (nor
Traffie) have any idea of the power capability in this case. I would
be VERY sad if I harmed my beloved HX-5B. ;-)

I hope to improve my 40 m situation soon with the addition of a 40 m
Hex-Beam and join the ranks of just a handfull of 40 m HB owners. :-
)))

I also have used the LDG AT-11MP and LDG RT-11 autotuners with the
1000MP to operate on 6, 30, 40 , and 80 m. I like the 11MP best for
this application, but it doesn't cover 6 m so well, while the RT-11
does.

73,
Barry - W4WB

1739. Re: [hex-beam] 6m Aurora!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-10-31 14:20:05 UTC
From: P. Buijserd
Topic: 1737 Message: 1739

hello all,
yes, aurora was great last night. I own a HXL-1510 and have added wires for 6 meters myself. Working ok, low SWR and yesterday's conditions brought some good dx, including a new dxcc for me: GJ Jersey. Really pleased with that one, 'cause so far I worked about 85 countries on 6, and finding new ones in Europe isn't easy.
Also I could work an Italian station, really rare on 50 MHz aurora, and I heard a YU, but couldn't complete the contact.
By the way, I also worked stations on 2 meters, and heard some strong stations on 10, also fully auroral.
As a big bonus, I was able to watch my first visual aurora, really beautiful fireworks !
73, Peter PB1TT

1740. Where is the W8AC Site?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-01 13:00:41 UTC
From: Chuck Stigberg
Topic: 1740 Message: 1740

Is the W8AC link/site down?

Do you Yahoo!?
Exclusive Video Premiere - Britney Spears
http://launch.yahoo.com/promos/britneyspears/

1741. WHEW! First SS w/ Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-03 03:03:38 UTC
From: Jason Hissong
Topic: 1741 Message: 1741

Wow... that was fun... and exhausting! My first SS with the Hexbeam. She performed very well. I was able to bust through the QRM with all the close in stations. Wow... next weekend the CQ WW CW contest... WHOOHOO!

Anybody else hop into the contest?

Final count: 200 contacts, 70 Sections worked, claimed score, 27860. Granted, it is not a high score compared to the "big guns", but hey! I was in for 12 hours at least. Also, there was a run of contacts where I was averaging 56 Qs an hour! Sheesh!

Anyways... hope you guys had fun!

73
--
Jason Hissong
http://www.n8xe.com
http://www.jasonhissong.com

1742. New pics in photomap PA2JJB

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-03 21:24:18 UTC
From: PA2JJB
Topic: 1742 Message: 1742

Hello everyone,
Last week I make a RF-choke on a T200 toroid and put
in in a watertight-case with 2 N-type connectors. At me job PH0DX and
I tested it on a network-analyser and gives a good curve from 10 - 40
Mc and SWR < 1,2. So very interested what this thing will do in the
real world with the HEX-beam.
Saturday I buyed 40M = 33 feet twinwire gauge 14 (I think) and
measured all the driven and reflected elements. I used the dimensions
of DL7IO and put marks on the places that are 10cm shorter then for
bare copper wire.Also put a mark on the wires for velocity-factor
from LZ2?? = 0,954, and we will see what the real lenght will be,
when I trim my HEX-beam with my antenna-analyser.

One quistion from my side:
What is the best way to trim this baby??
Put all the wires in place on the centerhub and bamboo's and then
start trimming first 20M and so on. Or first connect only the 20M
dipole and reflector; trim it to the wanted frequency and then after
that connect the 17M dipole and reflector trim it and so and so on!!!!

Hope the weather will be my friend coming weekend and I can assemble
my HEX-Beam and trim it to my favourite frequencies.

Oh yes the last picture is made from 5,50M electrical housewire,
stressed it so the wire will be "dead", and stripped the isolation of
it. Took me only 15minutes, and maybe I will try also this wire on my
HEX-beam.

OK guys, as you see little by little is this project growing to a
real HEX-beam and hope I can use it in my Chrismas-holiday

Best 73's from de Jan PA2JJB Texel-Island IOTA-EU038

1746. Re: New pics in photomap PA2JJB

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-05 14:49:54 UTC
From: dl7io
Topic: 1742 Message: 1746

Hello Jan,
it is fun and interesting to follow your project step by step.
Regarding your question. You first have to install all the elements.
Otherwise you will not have a useful result. I remember that I had
all resoncences out of the bands when I used PVC-wire first time and
shorted all wires at once by about 10-15 cm (depending on the band).
From here I started the fine tuning. Usually a change of the length
of one dipole will influence the neighbour bands. Please remember
that the best SWR is not the point of best gain. The gain slows down
with the increasing frequency within the band. So if you can accept a
SWR of 1:2 or a bit more in the CW portion you will have a little bit
more gain here. I have replaced the powerpoint files by pdf's in the
file section (under DL7IO)because of the many requests I got. The
German version has a few more slides. Within are some pictures out of
EZNEC where you can see the SWR and the gain on a sample of a 15m
single band version but it is almost the same for the multiband
versions.
Be careful with the cutter knife and use straps or something like
this first!
regards Holger
PS. I have erected a 15m crank up tower last weekend. If the weather
is not to cold I will start experimenting with a multiband version
40m and up.

1747. Re: New pics in photomap PA2JJB

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-05 19:29:42 UTC
From: PA2JJB
Topic: 1742 Message: 1747

Hello Holger,
Thanks for your answer and gives me the idea that I'm
moving in the right direction ;-)
Downloaded ur PDF-files and they are very nice; so I printed the
German PDF and put in my HEXbeam-information-book.
Hope to bow this weekend the bamboo's and start to install the wires
and maybe I have the time to trim the wires with the AEA-antenne-
analyser. Hope we can inspire other hams to build this magnificent
antenna, and exchange more experiences!!!

Best 73's de PA2JJB

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> Hello Jan,
> it is fun and interesting to follow your project step by step.
> Regarding your question. You first have to install all the
elements.
> Otherwise you will not have a useful result. I remember that I had
> all resoncences out of the bands when I used PVC-wire first time
and
> shorted all wires at once by about 10-15 cm (depending on the
band).
> From here I started the fine tuning. Usually a change of the length
> of one dipole will influence the neighbour bands. Please remember
> that the best SWR is not the point of best gain. The gain slows
down
> with the increasing frequency within the band. So if you can accept
a
> SWR of 1:2 or a bit more in the CW portion you will have a little
bit
> more gain here. I have replaced the powerpoint files by pdf's in
the
> file section (under DL7IO)because of the many requests I got. The
> German version has a few more slides. Within are some pictures out
of
> EZNEC where you can see the SWR and the gain on a sample of a 15m
> single band version but it is almost the same for the multiband
> versions.
> Be careful with the cutter knife and use straps or something like
> this first!
> regards Holger
> PS. I have erected a 15m crank up tower last weekend. If the
weather
> is not to cold I will start experimenting with a multiband version
> 40m and up.

1748. More Dutch hams who buy or built a HEX-Beam ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-05 19:46:43 UTC
From: PA2JJB
Topic: 1748 Message: 1748

Hello all,
I wonder if there are more Dutch radiohams who has build or buy this HEX-beam ??? I know PE3AA - Davy has built a 10M-HEX, and will make a 5-Band HEX. My collega PH0DX (what a call ;-)) who has built a 20M-HEX and is so enthousiatic about it; that he will built a second one for 5 bands !!! (you can see his pics in a fed days in the photosection of this group)
I saw messages with PB1TT who buyed a HEX1510 and liked it also very much. Maybe we can exchange experiences on 80 or 40M or via phone.

All lots of succes in building or many DX with this HEX-beam

73's de Jan PA2JJB

1749. 30/40m beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-07 12:54:54 UTC
From: dl7io
Topic: 1749 Message: 1749

Hello,
for those of you who are interested/able in calculating an EZNEC-model of a multiband beam for 30/40m with feeding from the bottom I have loaded a file into the file section under DL7IO.
I'm very interested in comments regarding this.
thank's for attention and have a nice weekend,
Holger

1750. Re: 30/40m beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-08 01:47:29 UTC
From: w4wb
Topic: 1749 Message: 1750

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> Hello,
> for those of you who are interested/able in calculating an EZNEC-
> model of a multiband beam for 30/40m with feeding from the bottom I
> have loaded a file into the file section under DL7IO.
> I'm very interested in comments regarding this.
> thank's for attention and have a nice weekend,
> Holger

Tnx Holger. I have one question. Why is the 30 m elements on one side not in the plane with the other side and parallel with the 40 m elements?

I am particularly interested in this since I hope to have a 40 m HB from Traffie in the near future. It is my understand that he attempted to make a 30-40 m HB in the past and found that, although it would work, the performance of the 40 m beam suffered more than acceptable from its mono-band performance. I would, of course, desire to have 30-40 m capability, but not at the suffering of 40 m performance.

I look forward to your reply.

73,
Barry - W4WB

1751. New pics in photomap PA2JJB

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-08 19:15:29 UTC
From: PA2JJB
Topic: 1742 Message: 1751

Hello to all,
Today I have worked on the bending of the bamboos and
that was not so easy, because my garden don't have enough room to fit
the HEX-beam ok. PH0DX used a different manner to bend the bamboos
and it worked very good and easy!!! When the weather is good tomorrow
I will try to fit the wires in this nice antenna-project.

Best 73's de Jan PA2JJB Texel-Island EU038

1752. Re: 30/40m beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-10 07:30:13 UTC
From: dl7io
Topic: 1749 Message: 1752

Hello Barry,
sorry for the delay. I have been in Spain and Finland during the last week and used the evenings in the hotels to calculate the model of the beam. And coming home for the weekend I spent the time with Birgit and the kids and not on the computer.
I also found those 2 hanging wings and changed it but the influence is minimal. I continued the optimisation of the beam and came to a bit better SWR on 40m (1:1,3 at 7,05 MHz). The shortening of the endisolators or the 40m elements brought the decrease of the SWR. They now are shorter than for 30m. This was somehow suprising to me and I'm still trying to interprete this. I will change the files and add the excel file with the calculation for the XYZ-coordinates. Than everybody can continue to work with this model. The gain on 40m is about 6,x dBi (free space, no losses) which is almost the same like for monoband or other multiband versions. I think 30m is a bit less but take that beam to 15m height and look on the TOA and I see no problems entering in DX-pile ups. I'm thinking what spreaders I should take?

I don't know what Traffie was trying/calculating but I'm sure he also uses some software to calculate the model first and as long as there is no self optimisation routine implemented it is a hard and long way to find the best solution trying it out by changing some lenghts in cm steps... Probably he has some internet connection now and is willing to take a look on our first proposal. It would be a great honour for me to listen to his comment
regards Holger

> Tnx Holger. I have one question. Why is the 30 m elements on one
> side not in the plane with the other side and parallel with the 40
m
> elements?
>
> I am particularly interested in this since I hope to have a 40 m HB
> from Traffie in the near future. It is my understand that he
> attempted to make a 30-40 m HB in the past and found that, although
> it would work, the performance of the 40 m beam suffered more than
> acceptable from its mono-band performance. I would, of course,
> desire to have 30-40 m capability, but not at the suffering of 40 m
> performance.
>
> I look forward to your reply.
>
> 73,
> Barry - W4WB

1753. Re: 30/40m beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-11 01:12:41 UTC
From: w4wb
Topic: 1749 Message: 1753

Most understandable Holger. I look forwarded to your revised design. Traffie told me that the 30-40 m HB worked, but not as well as he wanted. Seems that the gain is okay, but the F/B is degraded a bit.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> Hello Barry,
> sorry for the delay. I have been in Spain and Finland during the last
> week and used the evenings in the hotels to calculate the model of
> the beam. And coming home for the weekend I spent the time with
> Birgit and the kids and not on the computer.
> I also found those 2 hanging wings and changed it but the influence
> is minimal. I continued the optimisation of the beam and came to a
> bit better SWR on 40m (1:1,3 at 7,05 MHz). The shortening of the
> endisolators or the 40m elements brought the decrease of the SWR.
> They now are shorter than for 30m. This was somehow suprising to me
> and I'm still trying to interprete this. I will change the files and
> add the excel file with the calculation for the XYZ-coordinates. Than
> everybody can continue to work with this model. The gain on 40m is
> about 6,x dBi (free space, no losses) which is almost the same like
> for monoband or other multiband versions. I think 30m is a bit less
> but take that beam to 15m height and look on the TOA and I see no
> problems entering in DX-pile ups. I'm thinking what spreaders I
> should take?
>
> I don't know what Traffie was trying/calculating but I'm sure he also
> uses some software to calculate the model first and as long as there
> is no self optimisation routine implemented it is a hard and long way
> to find the best solution trying it out by changing some lenghts in
> cm steps... Probably he has some internet connection now and is
> willing to take a look on our first proposal. It would be a great
> honour for me to listen to his comment
> regards Holger
>

1754. Re: HX5Bi on other bands

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-13 07:12:52 UTC
From: ab0si
Topic: 1736 Message: 1754

--- In hex-beam@yahoogroups.com, "t_ashland" <t_ashland@y...> wrote:
> Hi,
> I really love my hex! With that said, I am wondering if others
have
> loaded their hexes on 30 or 40? I am using at FT-1000MP and it
> doesn't quite load up very well with the auto-tuner on 30 for me.
> Has anyone used like the LDG tuner with them on the other bands?
> Thanks and 73,
> Terry, WK0F

My 5Bi loads easily on 6m with the 756Pro internal tuner. Neither
that inernal tuner nor the MP Mark V's will load it on 30m or lower.
However, my Palstar AT1500CV loads it down to 75m (haven't tried it
on 80m or 160m). I admit taht I just loaded in on the lower bands for
grins and I kept the power down to 100 watts. My "normal" 40m antenna
is a Force 12 vetical dipole and the hex (here's a non-surprise) is
not as effecient.

Paul AB0SI

1755. test

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-13 10:51:37 UTC
From: zut599
Topic: 1755 Message: 1755

sri test

1756. Re: [hex-beam] Re: HX5Bi on other bands

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-13 13:10:52 UTC
From: kristi and ralph ferrara
Topic: 1736 Message: 1756

Good Morning; My 5 HBi loads op on 40 and 80 quite well with my Kenwood TS930SAT, however my center fed Zepp out performs it by a least 2 S units on both bands (Off the sides of the antenna). I have used it (the HB) on the 40M SSTV net wiith some success. My IC 706 tuner will not load up the HB on these bands. All the best Ralph WA2NTK

----- Original Message -----
From: ab0si
To: hex-beam@yahoogroups.com
Sent: Thursday, November 13, 2003 2:12 AM
Subject: [hex-beam] Re: HX5Bi on other bands

--- In hex-beam@yahoogroups.com, "t_ashland" <t_ashland@y...> wrote:
> Hi,
> I really love my hex! With that said, I am wondering if others
have
> loaded their hexes on 30 or 40? I am using at FT-1000MP and it
> doesn't quite load up very well with the auto-tuner on 30 for me.
> Has anyone used like the LDG tuner with them on the other bands?
> Thanks and 73,
> Terry, WK0F

My 5Bi loads easily on 6m with the 756Pro internal tuner. Neither that inernal tuner nor the MP Mark V's will load it on 30m or lower. However, my Palstar AT1500CV loads it down to 75m (haven't tried it on 80m or 160m). I admit taht I just loaded in on the lower bands for grins and I kept the power down to 100 watts. My "normal" 40m antenna is a Force 12 vetical dipole and the hex (here's a non-surprise) is not as effecient.

Paul AB0SI

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[Non-text portions of this message have been removed]

1757. Skyrocket swr

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-22 14:54:09 UTC
From: k4pzc
Topic: 1757 Message: 1757

Hi to all. This is my irst post. Hope someone can help. I've built a 5 band Hexbeam from DL7IO's file and it tunedup very well. I then put a RCS-4 coax switch inline with it at the base of the 30ft pole it's on and the swr went from 1.8 on 20m to over 9. The other bands are even worse. I called Ameritron and they don't know what is wrong. Anyone else have this problem or know how to fix it?
Thanks

Sandy K4PZC

1758. Re: [hex-beam] Skyrocket swr

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-22 19:39:49 UTC
From: E8N2CG@aol.com
Topic: 1757 Message: 1758

Hi Sandy,

I believe the problem with your high SWR measurement is not the fault of the 5 band Hexbeam nor the RCS-4 coax switch. I'm guessing you initially checked the SWR of the Hexbeam directly to a Wattmeter with no other antennas being connected to a common ground coax switch and measured 1.8:1 SWR. Then you placed the RCS-4 coax switch and perhaps connected some other antennas to this switch. If this is so, one of the coax leads may be causing your high SWR problem. Try removing all antennas (disconnect one at a time to find which one is interacting with the Hexbeam) from the coax except for the Hexbeam and see if your SWR goes back to 1.8:1. If you have a ground wire on the coax switch, try disconnecting it as well to see if that is interacting with the Hexbeam

Kindly advise us of your findings.

73,

George N2CG

[Non-text portions of this message have been removed]

1759. WTB: HX5Bi Antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-22 21:11:01 UTC
From: NA1A
Topic: 1759 Message: 1759

Looking for a Hex-Beam model HX5Bi by Traffie Tech.
e-mail direct to na1a@...

[Non-text portions of this message have been removed]

1760. Re: [hex-beam] Digest Number 445

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-23 14:21:30 UTC
From: Dirk
Topic: 1760 Message: 1760

HI ALL, THE RELAY box is usually the culprit for higher vswr. i used one for years until it got struck by lightning. vy dirk

1761. Questions: anybody ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-23 21:10:15 UTC
From: ddelft2004
Topic: 1761 Message: 1761

Hi All,

Does anybody have an idea about the construction of the inside feedline of the 5band HEXBEAM ???

I also wonder what difference it would make feeding the antenna on the footplate instead of at the top. ?

Greetings 73's,

D.v.Delft, PE3AA

1762. Homebrew Hex Bitz idea`s in UK.. and beyond

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-24 11:54:50 UTC
From: Colin
Topic: 1762 Message: 1762

Hi all,
Here`s a few idea`s for homebrewers, mainly in the UK, but may help others with the hub idea.

An easy method for the hub assembly is to locate a Kee Klamp supplier (they have branches in France,Germany,also Buffalo and Ontario) (http://www.keeklamp.co.uk)
They have a range called "Kee-Lite" which is a hardwearing cast magnesium/aluminium lightweight alloy.
The 4 bolt square flange fitting costs about £6 here in the uk and will accept upto a 43.2mm dia tube.
These make for an easy professional looking hub that should last almost forever,simply use 2 of them and 4 x 10mm bolts to sandwich a 0.25" aluminium plate.
They go upto about 63mm dia and also have circular plated versions.

Also for UK hex homebrewers,a supplier of fibreglass tube at reasonable prices is RBJ Reinforced Plastics Ltd (Hertfordshire) (http://www.rbjplastics.com/index.htm)

For 5 band Hexbeam spreaders: (nice sliding fit)
2 x 5mtr lengths of 19mm x 3.2mm wall
2 x 5mtr lengths of 12mm x 2.25mm wall
Cost inclusive of V.A.T & overnight delivery: £51.23 approx.

Each spreader (comprising: 1666mm x 19mm + 1666mm x 12mm) weighs 0.7kg (assuming the wife`s kitchen scale is accurate)
They are a thousand times stronger than telescopic fishing poles,and have the perfect amount of bend.
You can have any colour you like as long as it`s white ;)

Nevada Radio (http://www.nevadaradio.co.uk)
#14 swg Flexweave copper wire is £40 for 100m drum (so you`ll have about 19m to spare)
They also do 2mm black Dacron line.

You should be able to build a long lasting 5-band hexbeam to be proud of..for about £120-£150.
(stainless steel u-bolts and hose clamps are expensive wherever you look)

I hope this info is useful to someone
Have fun with the Homebrewing
Best Regards
Colin

1763. Some delay in my postings and pics

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-25 21:23:45 UTC
From: PA2JJB
Topic: 1763 Message: 1763

Hello to all of you,
Try to sent this message for the 3th time !!
Its a while ago I post my mail and pics, that has two reasons: my wife and I become grandma and grandad for the 3th time, and on our way to see this new QRPP Sam, our car was hit from behind, and was totalloss....we had for a week a very stiff neck and back, but after all we are in good health again.
Two weeks ago I try to install my first dipole (20M) and all went wrong....I put to much tension on it and the PVC-pipe bow like a bamboo !!! I let all the bamboos back horizontal, and make a aligntool (see pic) (thanks to davy PE3AA for the hints) so I could align every bamboo for the same lenght.
A week later I put the aligntool on the PVC-pipe and it was possible to align all the bamboos within the cm. After that I started to install all the dipoles and they are all almost in there place on the bamboos. The next day I should install the reflectors but my grandson was more important that moment....
So weather was last weekend terrible here, and nothing could be done to go any further with the HEX. So lets hope next weekend will be better, so I can finish all the wiring and align the wires on the bamboos and hope to do some measurments with the AEA Matching-Analyser.

Best 73's and good luck with the HEX-Beam.

de Jan PA2JJB

1764. Re: Some delay in my postings and pics

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-26 17:37:48 UTC
From: Paulo Marcondes
Topic: 1763 Message: 1764

--- In hex-beam@yahoogroups.com, "PA2JJB" <jj-bakker@q...> wrote:

> way to see this new QRPP Sam, our car was hit from behind, and was
> totalloss....we had for a week a very stiff neck and back, but

Sorry for the accident. I'm sure you were using the safety belt!

> Two weeks ago I try to install my first dipole (20M) and all went
> wrong....I put to much tension on it and the PVC-pipe bow like a
> bamboo !!!

Please tell how did the PVC preformed (at least during
assembly)...I've plaaned building the HB, but stopped due to my
inability to find proper spreader material.
At first, I was intending to use PVC pipe, but was adviced against.
Then I start thinking fiberglass rods, but foud them way too
expensive, at last I researched telescoping fishing rods. Their price
was OK, but it was hard to find the proper lenght.

look at http://hamstuff.blogspot.com for details of the adventure.

> I let all the bamboos back horizontal, and make a
> aligntool (see pic) (thanks to davy PE3AA for the hints) so I could
> align every bamboo for the same lenght.
> A week later I put the aligntool on the PVC-pipe and it was
possible
> to align all the bamboos within the cm.

I was curious on your align tool, but wasn't able to figure out what
it is in fact :) Please point me the links, or other info...

73

1765. Re: [hex-beam] Re: Some delay in my postings and pics

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-26 18:31:22 UTC
From: Jan Bakker
Topic: 1763 Message: 1765

Hello Paulo,
I used bamboo for the spreaders !!! I make from a PVC-cap of 40mm the aligntool (see my pics in the map PA2JJB.)
Trough the cap i put a 6mm (1/4ïnch) bolt with 6 cableshoes.....true each cableshoe I put a nylonwire from about 281cm lengt and the other end goes to the endtip of the bamboo-spreader.

By the way we had our safetybelts on, because otherwise I never was be able to type this message to you lolll !!

Good luck and best 73's from Jan PA2JJB

----- Original Message -----
From: Paulo Marcondes
To: hex-beam@yahoogroups.com
Sent: Wednesday, November 26, 2003 6:37 PM
Subject: [hex-beam] Re: Some delay in my postings and pics

--- In hex-beam@yahoogroups.com, "PA2JJB" <jj-bakker@q...> wrote:

> way to see this new QRPP Sam, our car was hit from behind, and was
> totalloss....we had for a week a very stiff neck and back, but

Sorry for the accident. I'm sure you were using the safety belt!

> Two weeks ago I try to install my first dipole (20M) and all went
> wrong....I put to much tension on it and the PVC-pipe bow like a
> bamboo !!!

Please tell how did the PVC preformed (at least during
assembly)...I've plaaned building the HB, but stopped due to my
inability to find proper spreader material.
At first, I was intending to use PVC pipe, but was adviced against.
Then I start thinking fiberglass rods, but foud them way too
expensive, at last I researched telescoping fishing rods. Their price
was OK, but it was hard to find the proper lenght.

look at http://hamstuff.blogspot.com for details of the adventure.

> I let all the bamboos back horizontal, and make a
> aligntool (see pic) (thanks to davy PE3AA for the hints) so I could
> align every bamboo for the same lenght.
> A week later I put the aligntool on the PVC-pipe and it was
possible
> to align all the bamboos within the cm.

I was curious on your align tool, but wasn't able to figure out what
it is in fact :) Please point me the links, or other info...

73

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[Non-text portions of this message have been removed]

1766. Homebrew 5 Band Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-28 06:43:47 UTC
From: gfarek
Topic: 1766 Message: 1766

I have built a 5 band hex recently and have a good vswr on all bands, 1.2 to 1.8 in the General phone freqs. My question is, does anyone have any idea of the proper feedline profile. I used a 2" fiberglas center pole with the prescribed spacing and stainless bolta and 1/8" stainless rod attached inside the tube to all band connections. It seemed to match up on the first try. Will try to send pictures at a latter date. I would like to hear of other feedline mechanisms.
Thanks, Jerry

1767. 2 New Pics in my photomap

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-11-30 11:03:41 UTC
From: PA2JJB
Topic: 1767 Message: 1767

Hello to you all,
Yesterday I installed all my refelctor elements, but
it was to cold to align the driven and reflector-elements on the
right places on the bamboos. Today the wetter is terrible: its
raining, raining and raining !! Hope the coming weeks to align the
HEX-beam for all 5 bands and prepare it for my roof so I can use this
beam in the PACC-contest on februari 15th and 16th.

Best 73's de Jan PA2JJB

1768. My HEX-Beam ready for testing

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-07 19:14:09 UTC
From: PA2JJB
Topic: 1768 Message: 1768

Hello to you all,
Today I finished all the wiring of the HEX-beam and
the wires are almost on their right places on the bamboos. On advice
of Holger DL7IO I make all the wires of driven and reflector elements
10cm shorter, because I'm using isolated wires, but keeping the
lenght of the endwires for the driven and reflector elements
unchanged. I connected about 70 feet of coax to the beam and put on
my IC-706 and the SWR's on all bands where not bad at all, but the
beam was only 3 feet above the ground....I hear LZ2TU calling CQ on
18.071 Kc and answered him with only 20Watts and he come back for me;
so that was my big thrill !!!!!
The beam works only 3 feet above the ground and works some more
stations in Spain and Russia all with 20Watts.
After that I put the beam on a 10 feet mast and saw the difference in
SWR now, but its on all bands below 1:2....not bad at all.
Heared some W-stations on 15M just before the bands closing and I
think the HEX-beam is very quiet to listen.
Tomorrow I will see with the AEA-antenna-analyser what the SWR-curve
and resonance really is doing at this height.

Best 73's and good luck by building this amazing beam.

PA2JJB Texel-Island IOTA EU-038

1769. Re: My HEX-Beam ready for testing

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-08 21:27:32 UTC
From: Sieb.
Topic: 1768 Message: 1769

--- In hex-beam@yahoogroups.com, "PA2JJB" <jj-bakker@q...> wrote:
> Hello to you all,
> Today I finished all the wiring of the HEX-beam and
> the wires are almost on their right places on the bamboos. On advice
> of Holger DL7IO I make all the wires of driven and reflector elements
> 10cm shorter, because I'm using isolated wires, but keeping the
> lenght of the endwires for the driven and reflector elements
> unchanged. I connected about 70 feet of coax to the beam and put on
> my IC-706 and the SWR's on all bands where not bad at all, but the
> beam was only 3 feet above the ground....I hear LZ2TU calling CQ on
> 18.071 Kc and answered him with only 20Watts and he come back for me;
> so that was my big thrill !!!!!
> The beam works only 3 feet above the ground and works some more
> stations in Spain and Russia all with 20Watts.
> After that I put the beam on a 10 feet mast and saw the difference in
> SWR now, but its on all bands below 1:2....not bad at all.
> Heared some W-stations on 15M just before the bands closing and I
> think the HEX-beam is very quiet to listen.

Hello John.
Always nice to see that you are progressing so nicely with your
Hex-beam.
It has become too cold here to do any serious antenna work.
The temperature is mostly below zero degrees celcius and there is
snow on the ground too..
Hope that the weather on your side of the pond stays good enough to
hoist your antenna up in the air soon.
PS: did you get my E-mail dated Oct 13? If not I will send it again.
73 de Sieb,,VE3JUA.
> Tomorrow I will see with the AEA-antenna-analyser what the SWR-curve
> and resonance really is doing at this height.
>
> Best 73's and good luck by building this amazing beam.
>
> PA2JJB Texel-Island IOTA EU-038

1770. Re: My HEX-Beam ready for testing

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-09 05:22:31 UTC
From: PA2JJB
Topic: 1768 Message: 1770

Hello Sieb,
Thanks for mail....no I did'nt receive your mail of oct
13. At a hight of 10 feet all resonance-freqencies are below the
bands. When I come home from my job its dark to do anything to prune
the beam. Also freezing here at the moment, but temperature will
increase during the week and I hope to tune the HEX-beam in the
coming weekend.

Beste 73's PA2JJB

> Hello John.
> Always nice to see that you are progressing so nicely with your
> Hex-beam.
> It has become too cold here to do any serious antenna work.
> The temperature is mostly below zero degrees celcius and there is
> snow on the ground too..
> Hope that the weather on your side of the pond stays good enough
to
> hoist your antenna up in the air soon.
> PS: did you get my E-mail dated Oct 13? If not I will send it
again.
> 73 de Sieb,,VE3JUA.
> > Tomorrow I will see with the AEA-antenna-analyser what the SWR-
curve
> > and resonance really is doing at this height.
> >
> > Best 73's and good luck by building this amazing beam.
> >
> > PA2JJB Texel-Island IOTA EU-038

1771. Re: [hex-beam] Re: New pics in photomap PA2JJB

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-09 05:26:26 UTC
From: Jan Bakker
Topic: 1742 Message: 1771

Hello Holger,
My HEX-beam is almost ready to tune and put it on my roof b4 the PACC-contest !!!
Busy making a programm for calculating the beam in ACCESS2000.
Wonder what formulas you have used to come to the dimensions f your beam??
Must run now for my job !!!!

Best 73's de Jan PA2JJB

----- Original Message -----
From: dl7io
To: hex-beam@yahoogroups.com
Sent: Wednesday, November 05, 2003 3:49 PM
Subject: [hex-beam] Re: New pics in photomap PA2JJB

Hello Jan,
it is fun and interesting to follow your project step by step.
Regarding your question. You first have to install all the elements.
Otherwise you will not have a useful result. I remember that I had
all resoncences out of the bands when I used PVC-wire first time and
shorted all wires at once by about 10-15 cm (depending on the band).
From here I started the fine tuning. Usually a change of the length
of one dipole will influence the neighbour bands. Please remember
that the best SWR is not the point of best gain. The gain slows down
with the increasing frequency within the band. So if you can accept a
SWR of 1:2 or a bit more in the CW portion you will have a little bit
more gain here. I have replaced the powerpoint files by pdf's in the
file section (under DL7IO)because of the many requests I got. The
German version has a few more slides. Within are some pictures out of
EZNEC where you can see the SWR and the gain on a sample of a 15m
single band version but it is almost the same for the multiband
versions.
Be careful with the cutter knife and use straps or something like
this first!
regards Holger
PS. I have erected a 15m crank up tower last weekend. If the weather
is not to cold I will start experimenting with a multiband version
40m and up.

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[Non-text portions of this message have been removed]

1772. Re: My HEX-Beam ready for testing

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-09 14:10:00 UTC
From: w4wb
Topic: 1768 Message: 1772

--- In hex-beam@yahoogroups.com, "PA2JJB" <jj-bakker@q...> wrote:
> Hello Sieb,
> Thanks for mail....no I did'nt receive your mail of oct
> 13. At a hight of 10 feet all resonance-freqencies are below the
> bands. When I come home from my job its dark to do anything to
prune
> the beam. Also freezing here at the moment, but temperature will
> increase during the week and I hope to tune the HEX-beam in the
> coming weekend.
>
> Beste 73's PA2JJB
>

The resonant frequency will increase signficantly as you raise the
antenna. Beware trimming at low heights.
GL es 73,
Barry - W4WB

1773. Frequency increasing

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-11 18:21:29 UTC
From: PA2JJB
Topic: 1773 Message: 1773

Hello to you all,
Does anyone know how much the frequency will
increase when I move my HEX-beam from 10 feet to almost 33 feet above
the ground ??? These are my values measured with the AEA-antenna-
analyser but near my house and WARC-band-dipoles near the HEX-beam
(see pic in my photomap PA2JJB.)

20M
13.500 KHz 1:3
13.575 1:2
13.640 1:1,6

17M
17.580 1:3
17.740 1:2
17.850 1:1,7

15M
20.580 1:3
20.700 1:2
20.850 1:1,6

12M
24.400 1:2,5
24.700 1:2
24>850 1:1,8

10M
27.600 1:2,7
28.250 1:2,2
28.400 1:2,2

Thanks for answer and explaining if anyone can help me.

Best 73's de Jan PA2JJB

1774. Re: Frequency increasing

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-12 02:30:03 UTC
From: w4wb
Topic: 1773 Message: 1774

Jan,

As I recall, the steep increase of SWR vs. frequency for my HX-5B at about 8 feet was about 13.5 or 13.6 MHz for the 20 m beam. When it was installed at 35 feet, the point moved to just a bit about 14.0 MHz.

73,
Barry - W4WB

--- In hex-beam@yahoogroups.com, "PA2JJB" <jj-bakker@q...> wrote:
> Hello to you all,
> Does anyone know how much the frequency will
> increase when I move my HEX-beam from 10 feet to almost 33 feet
above
> the ground ??? These are my values measured with the AEA-antenna-
> analyser but near my house and WARC-band-dipoles near the HEX-beam
> (see pic in my photomap PA2JJB.)
>
>
>
> 20M
> 13.500 KHz 1:3
> 13.575 1:2
> 13.640 1:1,6
>
> 17M
> 17.580 1:3
> 17.740 1:2
> 17.850 1:1,7
>
> 15M
> 20.580 1:3
> 20.700 1:2
> 20.850 1:1,6
>
> 12M
> 24.400 1:2,5
> 24.700 1:2
> 24>850 1:1,8
>
> 10M
> 27.600 1:2,7
> 28.250 1:2,2
> 28.400 1:2,2
>

>
> Thanks for answer and explaining if anyone can help me.
>
> Best 73's de Jan PA2JJB

1775. 5 band hex beam plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-13 20:29:55 UTC
From: dennisw_55_2000
Topic: 1775 Message: 1775

looking for plans/drawing for a 5band hex beam.

1776. New Hexbeam pictures

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-14 20:16:08 UTC
From: k1mzg
Topic: 1776 Message: 1776

Hi all,

Just uploaded some pictures of my hexbeam installation. It is the
5 band version on top of 30 foot mast, both from Mike Traffie.

I took Mike's advice and installed the Radio Shack TV rotator, at the
bottom of the mast, about 2 feet off the ground. Also, the guy lines
are non-inductive 5/16" dacron line that supposed to be UV resistant.
I got the the dacron line from http://www.davisrf.com/. The anchors
were obtained from a local garden supply store.

The bottom of the atenna is at 32 feet. I have a pretty flat location
at 950 feet above sea level. Works great! Spend most of my air time on
17m. On 12/7 we had 5 hexbeamers on 18130. Quite a convention - seems
like hexbeams communicate well with each other!

CU on the air. 73's

Michael Doherty - kd5wby

1777. Where to place my HEX-beam???

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-18 12:37:15 UTC
From: PA2JJB
Topic: 1777 Message: 1777

Hello to you all HEX-Beam-enjoyers.
I placed a pic in my photomap
(Look for the last one) PA2JJB and ask you what is the best place to put my HEX-BEAM. Wonder if my roof will have much influence at that hight (38 feet)My chimney is very strong build and when I put a aluminium pipe from about 9 feet, that is the easyest way to achieve the highest place for the HEX-beam.
Will make today some pics near the chimney so you can see it by yourself what is possible.

For now Merry Chrismas and a happy New Year 2004

73's de Jan PA2JJB

1778. Re: Where to place my HEX-beam???

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-18 14:59:01 UTC
From: w4wb
Topic: 1777 Message: 1778

--- In hex-beam@yahoogroups.com, "PA2JJB" <jj-bakker@q...> wrote:
> Hello to you all HEX-Beam-enjoyers.
> I placed a pic in my photomap
> (Look for the last one) PA2JJB and ask you what is the best place
to
> put my HEX-BEAM. Wonder if my roof will have much influence at that
> hight (38 feet)My chimney is very strong build and when I put a
> aluminium pipe from about 9 feet, that is the easyest way to
achieve
> the highest place for the HEX-beam.
> Will make today some pics near the chimney so you can see it by
> yourself what is possible.
>
> For now Merry Chrismas and a happy New Year 2004
>
> 73's de Jan PA2JJB

What matters mostly is what is inside the roof that is metal. If you can get the 20 m elements at about 42 feet, that would be great. I expect that you will be fine doing what you suggested. Nice slope on the roof!

BTW, please remove some of the photos after you have finished the project and keep it to just those that are actually needed. We are running out of space. Thanks.

73,
Barry - W4WB
(also Moderator)

1779. Re: Where to place my HEX-beam???

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-18 16:04:13 UTC
From: lz2be
Topic: 1777 Message: 1779

Hello Jan,

I had to make such a decision a year ago and I decided to put it on the top of the roof, near the chimney. It is about 2m above the roof. You can see how it looks in Photos session LZ2BE. I would suggest to put your Hex near the chimney at the left side of photo. Your roof slope is higher than my house, so Safety First! Think about how you will have access to the beam, if it needs some repairment later.

73 de Bob LZ2BE

--- In hex-beam@yahoogroups.com, "PA2JJB" <jj-bakker@q...> wrote:
> Hello to you all HEX-Beam-enjoyers.
> I placed a pic in my photomap
> (Look for the last one) PA2JJB and ask you what is the best place
to
> put my HEX-BEAM. Wonder if my roof will have much influence at that
> hight (38 feet)My chimney is very strong build and when I put a
> aluminium pipe from about 9 feet, that is the easyest way to
achieve
> the highest place for the HEX-beam.
> Will make today some pics near the chimney so you can see it by
> yourself what is possible.
>
> For now Merry Chrismas and a happy New Year 2004
>
> 73's de Jan PA2JJB

1780. Re: Where to place my HEX-beam???

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-18 16:59:21 UTC
From: PA2JJB
Topic: 1777 Message: 1780

Hello Barry,
Thanks for the info and I will fix the mast to my chimney.
There's only wood under my roof and nothing else. My 40-20-10M
dipoles are also hanging a few meters above the roof; thats is the
half of the dipoles, and working fb for many years now.
They will be removed when the HEX-beam is in his place.

Best 73's Jan PA2JJB

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> --- In hex-beam@yahoogroups.com, "PA2JJB" <jj-bakker@q...> wrote:
> > Hello to you all HEX-Beam-enjoyers.
> > I placed a pic in my photomap
> > (Look for the last one) PA2JJB and ask you what is the best place
> to
> > put my HEX-BEAM. Wonder if my roof will have much influence at
that
> > hight (38 feet)My chimney is very strong build and when I put a
> > aluminium pipe from about 9 feet, that is the easyest way to
> achieve
> > the highest place for the HEX-beam.
> > Will make today some pics near the chimney so you can see it by
> > yourself what is possible.
> >
> > For now Merry Chrismas and a happy New Year 2004
> >
> > 73's de Jan PA2JJB
>
> What matters mostly is what is inside the roof that is metal. If
you
> can get the 20 m elements at about 42 feet, that would be great. I
> expect that you will be fine doing what you suggested. Nice slope
on
> the roof!
>
> BTW, please remove some of the photos after you have finished the
> project and keep it to just those that are actually needed. We are
> running out of space. Thanks.
>
> 73,
> Barry - W4WB
> (also Moderator)

1781. Re: Where to place my HEX-beam???

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-18 17:03:51 UTC
From: PA2JJB
Topic: 1777 Message: 1781

Hello Bob,
Thanks for the info, and read the answer I sent to Barry.
I have easy access to my rooftop Bob, and easy to do aligments and
repairing.

Best 73's de Jan PA2JJB

PS for Barry .... I will only keep the pics in my map that are
important, so somebody else can use the space for his pics !!!

--- In hex-beam@yahoogroups.com, "lz2be" <lz2be@y...> wrote:
> Hello Jan,
>
> I had to make such a decision a year ago and I decided to put it on
> the top of the roof, near the chimney. It is about 2m above the
roof.
> You can see how it looks in Photos session LZ2BE. I would suggest
to
> put your Hex near the chimney at the left side of photo. Your roof
> slope is higher than my house, so Safety First! Think about how you
> will have access to the beam, if it needs some repairment later.
>
> 73 de Bob LZ2BE
>
> --- In hex-beam@yahoogroups.com, "PA2JJB" <jj-bakker@q...> wrote:
> > Hello to you all HEX-Beam-enjoyers.
> > I placed a pic in my photomap
> > (Look for the last one) PA2JJB and ask you what is the best place
> to
> > put my HEX-BEAM. Wonder if my roof will have much influence at
that
> > hight (38 feet)My chimney is very strong build and when I put a
> > aluminium pipe from about 9 feet, that is the easyest way to
> achieve
> > the highest place for the HEX-beam.
> > Will make today some pics near the chimney so you can see it by
> > yourself what is possible.
> >
> > For now Merry Chrismas and a happy New Year 2004
> >
> > 73's de Jan PA2JJB

1782. Re: Where to place my HEX-beam???

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-18 16:06:28 UTC
From: ke6vg
Topic: 1777 Message: 1782

I think the chimney is the place to go if it is strong enough.

Your next project needs to be creating a web site with all those photos. It's to bad there is not much room on this one.

1783. Left the important pics in my map ! And placed 2 new ones.

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-18 18:44:14 UTC
From: PA2JJB
Topic: 1783 Message: 1783

Hello to all,
On requist of our moderator Barry W4WB, I removed most
of the pics from my photomap, and left the importants ones. We must
share the photo-space with other people, and give them also the
oppertunity to place there pics.
Placed a new pic from the HEX-beam that I make this afternoon sitting
on my rooftop. Also a pic from my chimney where the HEX-beam will be
placed.

Lots of succes in building and construction this beam

73's de Jan PA2JJB Texel-Island

1784. HX-5Bi for sale

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-22 07:06:41 UTC
From: w6hb
Topic: 1784 Message: 1784

Saw this on EHam (for those who may be in the market)...

HX-5Bi Antenna. Works great, have the original boxes. I know this is
a longshot but would like to trade + cash for a Steppir. Will sell
for $550.
Dave N1IX

Phone: None entered Email: N1IX@...

1785. Re: [hex-beam] HX-5Bi for sale

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-22 07:19:06 UTC
From: Richard Strobel
Topic: 1784 Message: 1785

HI DAVE. HOW OLD IS THE ANTENNA AND WHAT CONDITION. 73 RICH AG4ZN

Do you Yahoo!?
Protect your identity with Yahoo! Mail AddressGuard

[Non-text portions of this message have been removed]

1786. Re: HX-5Bi for sale

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-22 07:35:26 UTC
From: w6hb
Topic: 1784 Message: 1786

Rich,

This was posted on EHam by Dave, N1IX. I merely relayed it to the group. To contact him click on his e-mail address in the post I copied or go to EHam.net and look at his classified there.

Doug - W6HB

--- In hex-beam@yahoogroups.com, Richard Strobel <gfts4u@y...> wrote:
> HI DAVE. HOW OLD IS THE ANTENNA AND WHAT CONDITION. 73 RICH AG4ZN
>
>
> ---
> Do you Yahoo!?
> Protect your identity with Yahoo! Mail AddressGuard
>
> [Non-text portions of this message have been removed]

1787. HXL-20/TDX-30/HDX-30

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-22 20:23:53 UTC
From: Tom Thomas
Topic: 1787 Message: 1787

Does anyboby have any experience with an HXL-20 in a portable operation at 25' to 30'? Looking for something with some gain. While I am on the subject. Any comments about the relative performance of the TDX-30 or HDX-30 with this antenna in a good wind?

Thanks

Tom WA6WPG

1788. Re: HXL-20/TDX-30/HDX-30

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-23 06:12:23 UTC
From: w6hb
Topic: 1787 Message: 1788

Hi Tom,

Long time no hear! I have a HX-5Bi and if you search through the archives, I think you will find input from folks using the Traffie masts with Hexs at about 30 feet. Mine is at 30 feet on an old Triex 37-TC.
Some of us bought the 10/15 meter Hex and sent it to P5/4L4FN when Ed was in North Korea. I have seen some of the DXpeditions using Hexs also.
Let me know if you would like to test drive the HX-5Bi. I now have a FT-1000MP as the main rig.

73,

Doug - W6HB / ex-WB6ROH

--- In hex-beam@yahoogroups.com, "Tom Thomas" <wa6wpg@a...> wrote:
> Does anyboby have any experience with an HXL-20 in a portable
> operation at 25' to 30'? Looking for something with some gain.
While I
> am on the subject. Any comments about the relative performance of
the
> TDX-30 or HDX-30 with this antenna in a good wind?
>
> Thanks
>
> Tom WA6WPG

1789. Re: [hex-beam] HXL-20/TDX-30/HDX-30

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-23 13:21:32 UTC
From: htankin@comcast.net
Topic: 1787 Message: 1789

Tom,

I've been using the HX5Bi and the HDX-30 as a "temporary" fixed configuration at my home qth for nearly 3 years. The HDX-30 is pricey, but the quality appears to be outstanding. I purchased the anodized bronze mast as it blends in with the trees quite nicely. The mast telescopes nicely, although a little WD-40 sprayed in each of the mast sections when I re-extend them (I check the antenna every six months or so)makes it go a bit easier. The two sets of guy rings also appear to be high quality and allow the mast and antenna to rotate freely.

Not sure how the HDX-30 compares with other telescoping masts, but the weight seems reasonable at 20lbs. The built-in locking pins are good and the heavy duty push-in pins seems solid.

I recall the HDX-30 comes with two antenna to mast sections: (a) short piece under a foot that will basically take the mast/antenna to a bit under 30 feet, and at 30 feet at the 20m element, and (b) a 5 foot piece which will get you higher. I elected to go with the short piece as the weight and mass of the HX5Bi and the 5 foot section attached to the HDX-30 was a unweildy even for 2 of us to put up the first time. Note that my mast and antenna are mounted ON a ground mounted Yaesu G-1000DXA rotator..the rotator turns mast and antenna. Hence getting everything set up the first time is definitely a two, if not three, person job.

The mast is guyed at 2 levels with 3 guys each. I use 5/16" double braid rope, although I suspect 3/16" would work fine. The guys are held tight using "rope pulls" (you can get them at RadioWorks or Home Depot). The rope pulls are then attached to stakes or dog-run screws I put in the ground.

20m performance is very good at this height..actually the antenna performs well on all bands. No regrets and would do this again if necessary.

Hope this helps.

Harry WE1X
> Does anyboby have any experience with an HXL-20 in a portable
> operation at 25' to 30'? Looking for something with some gain. While I
> am on the subject. Any comments about the relative performance of the
> TDX-30 or HDX-30 with this antenna in a good wind?
>
> Thanks
>
> Tom WA6WPG
>
>
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com

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>
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> hex-beam-unsubscribe@yahoogroups.com
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>

1790. Re: HXL-20/TDX-30/HDX-30

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-24 18:01:49 UTC
From: Andrea & Chuck Bridges
Topic: 1787 Message: 1790

My experience and set up are very similar to Harry WE1X's. I have been very satisfied with it and consider it a permanent installation.

Like Harry, I lower the sections of the mast about every six months and use the trusted WD-40. I live in a very windy area (there are wind farms just down the road) and the mast has held up well.

As for the performance of the HX-5Bi -- I have been very happy with the way it plays on all bands. I dream about a tower, but the only new antenna that I would put on top would be a 40 meter beam. The HX-5Bi would stay!

If you have any questions, please feel free to contact me.

Chuck, AK6DV

CU in the ARRL RTTY Roundup JAN 3 - 4

Check out the BEACONet Project Website
www.BEACONet.org

1791. Re: [hex-beam] Digest Number 461

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-25 13:47:30 UTC
From: Dirk
Topic: 1791 Message: 1791

hello chuck, the next time that you lower that mast , put some alemite grease on the sections or use never sieze lubricant and it wont rust anymore. vy dirk

1792. Hex Beam for Sale (5 Band)

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-25 23:12:24 UTC
From: Marty N5NW
Topic: 1591 Message: 1792

I have acquired an HX5B, very good condition, currently disassembled. I have all the hardware. S/N is 073. I plan on moving in the next couple of years and don't want to hassle with it. Also, have a 40 ft aluminum tower on the ground, no hardware or base plate. Very light, perfect for the Hex. 5- 8ft sections, taper in the middle, top section included.

I'd like $900 for the package. I can't ship the tower -- I live in the SE Suburbs of Dayton, Ohio. Separated, I'd sell the antenna for US$650 and the tower for US$350. I'll give it a couple of weeks to see if anyone wants to buy the package, then I'll separate.

All costs plus actual packing and shipping.

Would consider trade for excellent condition Yaesu FT-847 with the Collins CW filter.

de N5NW (Marty)
Bellbrook, Ohio

NNN0RBB -- US Navy Marine Corps MARS
Life Member, ARRL
Official Observer

1793. HXL-20/TDX-30/HDX-30

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-26 13:00:49 UTC
From: Tom Thomas
Topic: 1787 Message: 1793

Thanks for all the input. I am convinced!

Tom, WA6WPG

1794. Anybody feed a monobander from a tuner for multiband op?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-30 02:15:32 UTC
From: yahglabelle
Topic: 1794 Message: 1794

I'm looking at the HexBeam. Other choices are the Cushcraft MA5B (almost eliminated due to poorer performance) and the TGM "hybrid" quad (nearly eliminated due to narrow bandwidth, tuning and reliability issues). I need a lightweight antenna that can be turned by a TV rotor and mounted on a smallish roof tower due to XYL constraints :-)

I'd like some gain. My other strong contender would be a rotatable dipole - disadvantage, no gain - advantage, all band operation, fed from a balanced tuner. I'd like to know if a monoband HexBeam (say 30 or 20M version) could be fed with ladder line and worked from resonance and up (and maybe down?). Anyone tried this? Sure, I could get the 5 band antenna to begin with, but I already have a good balanced tuner, and a monobander would be smaller, lighter and less "obvious" (and cheaper!).

Thanks,
George
WB6YZZ Aloha, Oregon

1795. Re: Anybody feed a monobander from a tuner for multiband op?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-31 02:24:05 UTC
From: w6hb
Topic: 1794 Message: 1795

In my opinion, you would be sorely disappointed if you did what you propose. You may derive nearly the design characteristics of the beam on the primary band. Operation on the bands above the design frequency would be similiar to using a doublet and have minimal directional benefits. Characteristics will vary from band to band. Perhaps some of the other reflector members have modeled something similar and can present some finite data.

73 - W6HB

--- In hex-beam@yahoogroups.com, "yahglabelle" <glabelle17@a...>
wrote:
> I'm looking at the HexBeam. Other choices are the Cushcraft MA5B
> (almost eliminated due to poorer performance) and the TGM "hybrid"
> quad (nearly eliminated due to narrow bandwidth, tuning and
> reliability issues). I need a lightweight antenna that can be
turned
> by a TV rotor and mounted on a smallish roof tower due to XYL
> constraints :-)
>
> I'd like some gain. My other strong contender would be a rotatable
> dipole - disadvantage, no gain - advantage, all band operation, fed
> from a balanced tuner. I'd like to know if a monoband HexBeam (say
> 30 or 20M version) could be fed with ladder line and worked from
> resonance and up (and maybe down?). Anyone tried this? Sure, I
could
> get the 5 band antenna to begin with, but I already have a good
> balanced tuner, and a monobander would be smaller, lighter and
> less "obvious" (and cheaper!).
>
> Thanks,
> George
> WB6YZZ Aloha, Oregon

1796. Re: [hex-beam] Digest Number 464

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-31 04:28:44 UTC
From: David Douglass
Topic: 1796 Message: 1796

George,

I would think the main problem you would have with using pen line and a balanced tuner would be the reflector element, which would also need to be tuned. Therefore you would need 2 feed-lines and 2 tuners..

Of the commercially available small beams the Hex would have to be most robust and suitable for a small rotator due to it's low weight, small turning radius and being symmetrical. I can't comment on the gain of the others, but the Hex is OK, although 10/12 metres is not so good. I never heard a good report on the TGM antenna, but know a few people with the MA5B, who have good things to say about it. I've also heard good reports about the C3SS (can't remember who makes it ??). The main disadvantage of the Hex would have to price I suppose, although they're pretty straight forward to build.

If your determined to use open line, look at a Small Delta Loop Antennas (SDL's). These are covered in a few text books, the main one that springs to mind is "HF Antennas for All Locations", by G6XN (RSGB Books). There is also a 2 element beam version, he calls the 'Claw', which for me would have to be the Best Small Beam Antenna there is..

Then again... A simple dipole at the right height is hard to beat for ease, cost, visual impact and performance. The fact that they would be by far the most popular Amateur antenna ever has to tell you something !!

GL and HNY

David, VK2DPD - sweltering in the 35?C heat...
>
> _____
> _____
>
> Message: 1
> Date: Tue, 30 Dec 2003 02:15:32 -0000
> From: "yahglabelle" <glabelle17@...>
> Subject: Anybody feed a monobander from a tuner for multiband op?
>
> I'm looking at the HexBeam. Other choices are the Cushcraft MA5B
> (almost eliminated due to poorer performance) and the TGM "hybrid"
> quad (nearly eliminated due to narrow bandwidth, tuning and
> reliability issues). I need a lightweight antenna that can be turned
> by a TV rotor and mounted on a smallish roof tower due to XYL
> constraints :-)
>
> I'd like some gain. My other strong contender would be a rotatable

> dipole - disadvantage, no gain - advantage, all band operation, fed
> from a balanced tuner. I'd like to know if a monoband HexBeam (say
> 30 or 20M version) could be fed with ladder line and worked from
> resonance and up (and maybe down?). Anyone tried this? Sure, I could
> get the 5 band antenna to begin with, but I already have a good
> balanced tuner, and a monobander would be smaller, lighter and
> less "obvious" (and cheaper!).
>
> Thanks,
> George
> WB6YZZ Aloha, Oregon
>

1797. thinking of HEX

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-30 16:23:00 UTC
From: iz5diy
Topic: 1797 Message: 1797

Hi guys,

I am going to build my own Hex antenna.

I read some of your interesting message, file and watched your files and pictures.

I think I'll follow DL7IO path.

I'd like to start with a bi-band hex antenna (20 & 10 MT).

I already have my spreaders: fiberglass diameter 1,5 cm (filled inside not a tube). I found them from my "horses" electric paddock (I hope now they don't run away!!! - and my father IW5DHS run after me).

I haven't "nude" copper and I have to use insulated copper so I read into DL7IO instruction to reduce leg's lenght of 10-15 cm (but I guess it is not same for all band!). Does anyone have a measure table for insulated copper? or "experienced" measure?

Hope to read you soon and make "real" my hex antenna in first week of 2004 (finally an holiday-week for me).

Silvio

P.S.: Anyone know Italian station running with Hex antenna?

1798. Re: Anybody feed a monobander from a tuner for multiband op?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-30 17:55:26 UTC
From: ke6vg
Topic: 1794 Message: 1798

--- In hex-beam@yahoogroups.com, "yahglabelle" <glabelle17@a...>
wrote:
> I'm looking at the HexBeam. Other choices are the Cushcraft MA5B
> (almost eliminated due to poorer performance) and the TGM "hybrid"
> quad (nearly eliminated due to narrow bandwidth, tuning and
> reliability issues). I need a lightweight antenna that can be
turned
> by a TV rotor and mounted on a smallish roof tower due to XYL
> constraints :-)
>
> I'd like some gain. My other strong contender would be a rotatable
> dipole - disadvantage, no gain - advantage, all band operation, fed
> from a balanced tuner. I'd like to know if a monoband HexBeam (say
> 30 or 20M version) could be fed with ladder line and worked from
> resonance and up (and maybe down?). Anyone tried this? Sure, I
could
> get the 5 band antenna to begin with, but I already have a good
> balanced tuner, and a monobander would be smaller, lighter and
> less "obvious" (and cheaper!).
>
> Thanks,
> George
> WB6YZZ Aloha, Oregon

If you ran something like a remote RT11 tuner or ladderline to a 44
ft rotatable doublet you actually would have gain on certain bands.
Cebik has plans for one on his website. Just no front to back to
block noise. You could use it from 10-40 meters with no problems.
Another disadvantage would be having to tune all the time. You would
also be limited in power by your tuner. And, you would still need
something larger than a TV rotor to rotate it. You could use a tuner
on a hexbeam, however, you might as well thrown up a hunk of wire.
You will loose your gain and directivity.

With the 5 band hex you would have gain on all the bands,
directivity, pre-tuned bandwidth, and you could run the legal limit
without thinking about tuners. But, I still would not recommend using
a TV rotor.

Anyone else have any thoughts?

1799. insulated copper

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-31 11:26:24 UTC
From: iz5diy
Topic: 1799 Message: 1799

Hi,

I am looking for measure for insulated copper.
I read DL7IO pdf file and I think I'll send his path but I have not
"nude" copper and all measure refer to this type.

73 de Silvio, IZ5DIY

1800. Re: Anybody feed a monobander from a tuner for multiband op?

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-31 12:06:37 UTC
From: w4wb
Topic: 1794 Message: 1800

--- In hex-beam@yahoogroups.com, "ke6vg" <ke6vg@t...> wrote:
You could use a tuner
> on a hexbeam, however, you might as well thrown up a hunk of wire.
> You will loose your gain and directivity.
>
> With the 5 band hex you would have gain on all the bands,
> directivity, pre-tuned bandwidth, and you could run the legal
limit
> without thinking about tuners. But, I still would not recommend
using
> a TV rotor.
>
> Anyone else have any thoughts?

No my experience and that of others. I have seem abt 1.5 S-units
F/B on 30 m, and abt 1 on both 40 and 80 m. Gain? Who knows. Made
a number of contacts. Used various LDG tuners and kept the power to
100-200 W.
73 de Barry W4WB

1801. performance of the hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-31 12:54:26 UTC
From: schlott_98
Topic: 1801 Message: 1801

Hi,

I am quite close to purchasing or making up a hex beam. I have read almost all the mail and occasionally get conflicting reports. Recently I saw a comment that the antenna is not so good on 10 and 12 meters. Does anyone have any comments on the upper band performance and does anyone have any emprical data on its performance??

I have read that some folks have abandoned 2 element quad antennas in favor of the hex beam and I find that asonishing. My main reason for not putting up a quad is ease of supporting an antenna and in that respect the hex beam would win hands down.

73, Burke K1BJS (Madison, CT)

1802. Re: performance of the hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2003-12-31 22:53:18 UTC
From: w4wb
Topic: 1801 Message: 1802

--- In hex-beam@yahoogroups.com, "schlott_98" <BJDM@J...> wrote:
> Hi,
>
> I am quite close to purchasing or making up a hex beam. I have
read
> almost all the mail and occasionally get conflicting reports.
> Recently I saw a comment that the antenna is not so good on 10 and
12
> meters. Does anyone have any comments on the upper band
performance
> and does anyone have any emprical data on its performance??
>
> I have read that some folks have abandoned 2 element quad
antennas
> in favor of the hex beam and I find that asonishing. My main
reason
> for not putting up a quad is ease of supporting an antenna and in
> that respect the hex beam would win hands down.
>
> 73, Burke K1BJS (Madison, CT)

Mine kicks on all 5 bands. I bust pile ups with ease and always get
good reports. In short, if I can hear them, I can work them. FWIW,
my ambient noise level is quite low. :-)
73,
Barry W4WB

1803. Re: [hex-beam] performance of the hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-01 00:06:35 UTC
From: htankin@comcast.net
Topic: 1801 Message: 1803

My HX5Bi has been up for nearly 3 years. It's a wild love monkey on all 5 bands.

Harry WE1X
> Hi,
>
> I am quite close to purchasing or making up a hex beam. I have read
> almost all the mail and occasionally get conflicting reports.
> Recently I saw a comment that the antenna is not so good on 10 and 12
> meters. Does anyone have any comments on the upper band performance
> and does anyone have any emprical data on its performance??
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> 73, Burke K1BJS (Madison, CT)
>
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> Yahoo! Groups Links
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>
>

1804. Re: performance of the hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-01 01:37:42 UTC
From: w6hb
Topic: 1801 Message: 1804

Hi Burke,

Everyone has an opinion and everyone's installations are a
little different. I have yet to see much "shootout" data although
many have modeled the Hex. Modeling is a nice tool that provides good
design data and presumes applicability. All most of us can do is cite
our own observations; some concur with modeling, some don't.
My HX-5Bi has been up at 30' since 10/01 in a suburban back yard
with various pattern destroyers such as power lines, guttering, metal
patio framing and other antennas. Some times I am told I am the
strongest signal on the band, other times not. Naturally,
propagation, number of hops, and all the other variables Mother
Nature throws in are part of the equation. Most of the time front to
back is 2 to 4 "S" units, whatever that equates to, as reported by
the station other end. This holds true for all bands including 12 and
10. Front to side reports are similar or better. Given this "deck
plate" data, I have to believe that the Hex is a beam and offers
performance at least equal to a conventional two element Yagi on five
bands. Although I have not had quads at this QTH, I have operated
them from friends' stations over the past 40 plus years. I believe
the Hex is "quieter" than Yagis I have had here and for whatever
reason seems less prone to QSB. I am not aware of any antenna of
comparable size, weight, wind load, turning radius or survivability
that offers gain on five bands and outdoes the Hex on the air. Most
full size five band antennas don't appear to me to offer enough more
operational performance to justify their installation requirements
and related costs.
Many of the Hexbeam owners are available for on the air
schedules and some offer eyeball QSOs to test drive this "umbrella on
steroids."
Sorry I can't offer hard numbers as so many would prefer. All I
can say is that I am pleased with my investment and the enjoyment it
has brought to my operating.

73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "schlott_98" <BJDM@J...> wrote:
> Hi,
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> I am quite close to purchasing or making up a hex beam. I have read
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> for not putting up a quad is ease of supporting an antenna and in
> that respect the hex beam would win hands down.
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> 73, Burke K1BJS (Madison, CT)

1805. Re: [hex-beam] insulated copper

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-01 14:54:22 UTC
From: Boian Petkov
Topic: 1799 Message: 1805

Hello Silvio,

I'm using insulated copper wire for my Hex. You need to make wires shorter. Multiply the lenght of
elements by 0,954 (velocity factor).

73 de Bob LZ2BE

--- iz5diy <s.gaggini@...> wrote:
> Hi,
>
> I am looking for measure for insulated copper.
> I read DL7IO pdf file and I think I'll send his path but I have not
> "nude" copper and all measure refer to this type.
>
> 73 de Silvio, IZ5DIY
>
>
>

_____
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Find out what made the Top Yahoo! Searches of 2003
http://search.yahoo.com/top2003

1806. Re: [hex-beam] Re: performance of the hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-01 17:47:51 UTC
From: Jason Hissong
Topic: 1801 Message: 1806

Burke,

Yes, let us know if want a QSO demo of the Hexbeam. Doug was the one that I had a QSO with that allowed me to see first hand what the hexbeam can do. I have an inverted V and my Hexbeam to do comparisons if you would like to get together for a sched.

--
Jason Hissong
http://www.n8xe.com
http://www.jasonhissong.com

w6hb wrote:
> Hi Burke,
>
> Everyone has an opinion and everyone's installations are a
> little different. I have yet to see much "shootout" data although
> many have modeled the Hex. Modeling is a nice tool that provides good
> design data and presumes applicability. All most of us can do is cite
> our own observations; some concur with modeling, some don't.
> My HX-5Bi has been up at 30' since 10/01 in a suburban back yard
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> patio framing and other antennas. Some times I am told I am the
> strongest signal on the band, other times not. Naturally,
> propagation, number of hops, and all the other variables Mother
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> back is 2 to 4 "S" units, whatever that equates to, as reported by
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> 10. Front to side reports are similar or better. Given this "deck
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> comparable size, weight, wind load, turning radius or survivability
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> full size five band antennas don't appear to me to offer enough more
> operational performance to justify their installation requirements
> and related costs.
> Many of the Hexbeam owners are available for on the air
> schedules and some offer eyeball QSOs to test drive this "umbrella on
> steroids."
> Sorry I can't offer hard numbers as so many would prefer. All I
> can say is that I am pleased with my investment and the enjoyment it
> has brought to my operating.

>
> 73 - Doug - W6HB
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> > I am quite close to purchasing or making up a hex beam. I have read
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> > meters. Does anyone have any comments on the upper band performance
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> > I have read that some folks have abandoned 2 element quad antennas
> > in favor of the hex beam and I find that asonishing. My main reason
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> >
> > 73, Burke K1BJS (Madison, CT)
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>
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> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/>.
>
>

1807. Re: [hex-beam] Re: performance of the hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-01 18:05:00 UTC
From: BJDM@JUNO.COM
Topic: 1801 Message: 1807

Hi Jason,

Would love to do a schedule with you. Am home today if you are available. Not sure what band would work between Ct and Ohio, maybe 17 or 20??? Let me know

73, Burke K1BJS (bjdm@...)

1808. San Jose, CA

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-02 16:07:30 UTC
From: lengail2
Topic: 1808 Message: 1808

I live in Santa Clara,CA and I would like to see a HexBeam.
What is a good (minimum size) self supporting mast for this antenna?
I don't have room for guy wires.
73s
Len...K6LRF

1809. Re: [hex-beam] performance of the hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-03 01:43:50 UTC
From: E8N2CG@aol.com
Topic: 1801 Message: 1809

Hi Harry,

Back in March 2001 I "temporarily" set up my newly purchased HX-5Bi Hex Beam. Prior to getting the HX-5Bi, I used end fed wire antennas with antenna tuner for operating on 80m thru 12m. On 10m I had a KLM 4 element close spaced mono band beam at 30 ft above ground level. From day one, this 10m mono band beam never had any front to back ratio performance. No matter where I pointed this beam, I heard whatever stations I was working equally regardless of the direction of the beam. This beam simply did not have any front to back performance.

I first saw the Hex Beam and met Mike Traffie and the Traffie family at the 1998 ARRL New England Division Convention in Boxboro, MA. I was very intrigued with the design of the Hex Beam, but was a bit spectacle about how this antenna would actually perform.

A couple years passed and I was getting tired of resonating the antenna tuner every time I made a band change. Additionally, all my antennas were basically fixed directional because the 10m beam was unidirectional in its performance.

All I can say is that purchasing the HX-5Bi was one of the best decisions I have made. In the past 2-3/4 years I have worked DXCC on 20m, 15 and 10m (nearly 80 countries on 12m and over 30 countries on 17m although I have not operated very much on 17m) using 100 Watts maximum power on mostly CW mode. What a pleasure it is to be able to operate the higher HF bands (20, 17, 15, 12 and 10m) with an SWR typically 1.2:1 (1.5:1 my worst case on 20m) with greatly noticeable front to back ratio (typically two S units or better) on all five bands. Additionally, the added benefit for me is that I can now make instant band changes without the need to resonate an antenna tuner. Finally, the HX-5Bi is able to handle noise significantly better then my end fed wire or 10m mono band beam antennas.

Please keep in mind that in addition to my favorable operating experiences, there are also some great physical aspects of the HX-5Bi. This antenna is relatively small and takes up very little space in addition to being very light weight. It can be set up by one person within one hour or less and only needs a small TV type antenna rotor.

In closing, I cannot justify the comments you say you heard that the HX-5Bi does not perform well on 12m and 10m bands. In my case, the HX-5Bi greatly out performs my KLM 4 element 10 mono band beam at 30 ft above ground. I have never had the luxury of having an antenna tower. All of my antennas are mounted either on the roof of my house at a maximum height of 40 ft above ground or mounted at on masts around the perimeter of my back yard at much lower heights.

Oh, by the way, I never did get around to mounting my HX-5Bi to a permanent location. I originally planned on removing the ill performing KLM 4 element

10m mono band beam and install the HX-5Bi in it's place. However, since my HX-5Bi has been performing so well I'm in no hurry to relocate it. Since March 2001 my HX-5Bi has been mounted on a 8 ft mast attached to a child's swing frame resulting with the base plate of my HX-5Bi being at a height of 12 feet (or about 4m) above ground! I'm sure any top NBA player could jump up and tough the 10m band elements without any difficulty.

My shack is on the second floor of my house and as I look out the shack window the top 20m element wires of the HX-5Bi are several feet below my shack window. Whenever I point the Hex Beam anywhere from south through west to north, the Hex Beam signals are literally going through my wood frame Cape Cod style house which is only 18 feet away from the east side of my house!

So Harry, I hope I have provided you with some insight concerning the HX-5Bi having nearly three years of personal experience with this antenna at relatively low evaluation height.

73, George N2CG

[Non-text portions of this message have been removed]

1810. Re: [hex-beam] performance of the hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-03 01:59:38 UTC
From: E8N2CG@aol.com
Topic: 1801 Message: 1810

Hi Burke K1BJS,

Kindly see my recent posting to this group. I mistakenly made my reply to Harry WE1X instead of to you.

Sorry all for any confusion. The HX-5Bi is a great antenna!

73, George N2CG

[Non-text portions of this message have been removed]

1811. Re: [hex-beam] performance of the hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-03 01:48:27 UTC
From: htankin@comcast.net
Topic: 1801 Message: 1811

George,

think you have me confused with someone else...been using my HX5Bi for nearly 3 years..and like I said in an earlier reply.."it performs like a wild love monkey on all 5 bands". Great antenna and would buy another.

Harry WE1X
> Hi Harry,
>
> Back in March 2001 I "temporarily" set up my newly purchased HX-5Bi Hex Beam.
> Prior to getting the HX-5Bi, I used end fed wire antennas with antenna tuner
> for operating on 80m thru 12m. On 10m I had a KLM 4 element close spaced
> mono band beam at 30 ft above ground level. From day one, this 10m mono band
> beam never had any front to back ratio performance. No matter where I pointed
> this beam, I heard whatever stations I was working equally regardless of the
> direction of the beam. This beam simply did not have any front to back
> performance.
>
> I first saw the Hex Beam and met Mike Traffie and the Traffie family at the
> 1998 ARRL New England Division Convention in Boxboro, MA. I was very intrigued
> with the design of the Hex Beam, but was a bit spectacle about how this
> antenna would actually perform.
>
> A couple years passed and I was getting tired of resonating the antenna tuner
> every time I made a band change. Additionally, all my antennas were

> basically fixed directional because the 10m beam was unidirectional in its
> performance.
>
> All I can say is that purchasing the HX-5Bi was one of the best decisions I
> have made. In the past 2-3/4 years I have worked DXCC on 20m, 15 and 10m
> (nearly 80 countries on 12m and over 30 countries on 17m although I have not
> operated very much on 17m) using 100 Watts maximum power on mostly CW mode.
> What a
> pleasure it is to be able to operate the higher HF bands (20, 17, 15, 12 and
> 10m) with an SWR typically 1.2:1 (1.5:1 my worst case on 20m) with greatly
> noticeable front to back ratio (typically two S units or better) on all five
> bands. Additionally, the added benefit for me is that I can now make instant
> band
> changes without the need to resonate an antenna tuner. Finally, the HX-5Bi is
> able to handle noise significantly better then my end fed wire or 10m mono
> band beam antennas.
>
> Please keep in mind that in addition to my favorable operating experiences,
> there are also some great physical aspects of the HX-5Bi. This antenna is
> relatively small and takes up very little space in addition to being very light

> weight. It can be set up by one person within one hour or less and only needs a
> small TV type antenna rotor.
>
> In closing, I cannot justify the comments you say you heard that the HX-5Bi
> does not perform well on 12m and 10m bands. In my case, the HX-5Bi greatly out
> performs my KLM 4 element 10 mono band beam at 30 ft above ground. I have
> never had the luxury of having an antenna tower. All of my antennas are mounted
> either on the roof of my house at a maximum height of 40 ft above ground or
> mounted at on masts around the perimeter of my back yard at much lower heights.
>
> Oh, by the way, I never did get around to mounting my HX-5Bi to a permanent
> location. I originally planned on removing the ill performing KLM 4 element
> 10m mono band beam and install the HX-5Bi in it's place. However, since my

> HX-5Bi has been performing so well I'm in no hurry to relocate it. Since March
> 2001 my HX-5Bi has been mounted on a 8 ft mast attached to a child's swing frame
> resulting with the base plate of my HX-5Bi being at a height of 12 feet (or
> about 4m) above ground! I'm sure any top NBA player could jump up and tough
> the 10m band elements without any difficulty.
>
> My shack is on the second floor of my house and as I look out the shack
> window the top 20m element wires of the HX-5Bi are several feet below my shack
> window. Whenever I point the Hex Beam anywhere from south through west to
> north,
> the Hex Beam signals are literally going through my wood frame Cape Cod style
> house which is only 18 feet away from the east side of my house!
>
> So Harry, I hope I have provided you with some insight concerning the HX-5Bi
> having nearly three years of personal experience with this antenna at
> relatively low evaluation height.
>
> 73, George N2CG
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
> To visit your group on the web, go to:
> http://groups.yahoo.com/group/hex-beam/
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> To unsubscribe from this group, send an email to:
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>
>

1812. Re: [hex-beam] San Jose, CA

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-03 05:05:39 UTC
From: K6WV
Topic: 1808 Message: 1812

Hi Len,

I live a few miles from you in Cupertino. I have had a HX-5Bi up at my QTH for the past 2 years. It is on a 19' push-up pole on my roof. If you'd like to see it, drop me some email and we can set up a time.

73, de Jon K6WV
k6wv@...

----- Original Message -----
From: lengail2
To: hex-beam@yahoogroups.com
Sent: Friday, January 02, 2004 8:07 AM
Subject: [hex-beam] San Jose, CA

I live in Santa Clara,CA and I would like to see a HexBeam.
What is a good (minimum size) self supporting mast for this antenna?
I don't have room for guy wires.
73s
Len...K6LRF

Yahoo! Groups Links

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b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

1813. Homebrew 5 Band Reflected W Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-03 07:36:49 UTC
From: gfarek
Topic: 1813 Message: 1813

I have finished and thoroughly test my project and have very good reports from everyone I have talked to on all 5 band. I will try to upload some pictures also later. Jerry

1814. Homebrew 5 Band

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-03 08:48:39 UTC
From: gfarek
Topic: 1814 Message: 1814

I have uploaded a few pictures of my homebrew 5 band "HEX" at my QTH in Houston, Texas to the photos section under N5GND Homebrew 5 Band Reflected W Beam. I hope the group will enjoy them as much as I have had building the project.

1815. Re: insulated copper // changing insulator distance?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-03 17:32:45 UTC
From: iz5diy
Topic: 1799 Message: 1815

--- In hex-beam@yahoogroups.com, "iz5diy" <s.gaggini@l...> wrote:
> Hi,
>
> I am looking for measure for insulated copper.
> I read DL7IO pdf file and I think I'll send his path but I have not
> "nude" copper and all measure refer to this type.
>
> 73 de Silvio, IZ5DIY

Tnx Bob, I have my coppers at right lenght.

And what about insulator distance between W and M? Can I use same
writed in DL7IO projects?

Tnx for reply.
73 de Silvio, IZ5DIY

1816. PHOTO Posting - Space running out!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-03 19:23:45 UTC
From: w4wb
Topic: 1816 Message: 1816

HI Folks,

We are just about out of space in the Photos Area.

If you have photos posted, please look at them and see if any can be removed now. Often, photos are timely and have short life ... others need to stay.

Your help shall be appreciated.

73,
Barry W4WB
Moderator

1818. whats the difference between 5bi vs 5b versions??

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-04 05:13:22 UTC
From: bigdog90692
Topic: 1818 Message: 1818

```
can anyone explain the difference between the hexbean 5bi versus the
5b version? is one better than the other? thx scott
```

1819. Re: whats the difference between 5bi vs 5b versions??

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-04 06:02:17 UTC
From: w6hb
Topic: 1818 Message: 1819

The main differences are the use of Phillystran for the non-element spans and the improved insulators to survive high power operation. I think these are spelled out on Mike's Web site.

73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "bigdog90692" <n6rrv@c...> wrote:
> can anyone explain the difference between the hexbean 5bi versus the
> 5b version? is one better than the other? thx scott

1820. Re: Homebrew 5 Band

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-04 06:12:02 UTC
From: w6hb
Topic: 1814 Message: 1820

Beautiful, custom job! Congratulations and glad she performs as well
as she looks!

73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "gfarek" <gfarek@y...> wrote:
> I have uploaded a few pictures of my homebrew 5 band "HEX" at my
QTH
> in Houston, Texas to the photos section under N5GND Homebrew 5 Band
> Reflected W Beam. I hope the group will enjoy them as much as I
have
> had building the project.

1821. Re: [hex-beam] Digest Number 469

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-04 18:32:36 UTC
From: Dirk
Topic: 1821 Message: 1821

5dbi stands for the improvement in signal strength over a iostropic antenna
. 5 b is a 5 band version of the hex beam dirk

1822. Re: Digest Number 469

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-04 19:22:09 UTC
From: w4wb
Topic: 1821 Message: 1822

Huh? Doug explained it correctly.
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Dirk" <ka2zbt@v...> wrote:
> 5dbi stands for the improvement in signal strength over a iostropic antenna
> . 5 b is a 5 band version of the hex beam dirk

1823. Re: [hex-beam] Digest Number 469

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-05 02:13:41 UTC
From: SJD N6RRV
Topic: 1821 Message: 1823

thx dirk

SCOTT J. DICKINSON N6RRV
----- Original Message -----
From: Dirk
To: hex-beam@yahoogroups.com
Sent: Sunday, January 04, 2004 10:32 AM
Subject: Re: [hex-beam] Digest Number 469

5dbi stands for the improvement in signal strength over a iostropic antenna
. 5 b is a 5 band version of the hex beam dirk

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c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

1824. K8AC Instructions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-05 21:59:46 UTC
From: lengail2
Topic: 1824 Message: 1824

I can't bring up this site:
http://home.sprintmail.com/~sentek/hexpage1.htm
Is there some reason?
Len...K6LRF

1825. Re: [hex-beam] K8AC Instructions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-05 22:25:20 UTC
From: John Tait
Topic: 1824 Message: 1825

Subject: [hex-beam] K8AC Instructions

> I can't bring up this site:
> http://home.sprintmail.com/~sentek/hexpage1.htm
> Is there some reason?
> Len...K6LRF

I think he has closed the site... A pity, 'cos he had some beautiful pics
up there. When I discovered that the link was dead, I removed it from my own
web page..
HNY to all you HEXed people
John EI7BA http://www.iol.ie/~bravo/

1826. Re: [hex-beam] Re: insulated copper // changing insulator distance?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-06 19:27:00 UTC
From: Boian Petkov
Topic: 1799 Message: 1826

Hello Silvio,
yes you can use dimensions of DL7IO.
73 de Bob LZ2BE

--- iz5diy <s.gaggini@...> wrote:
> --- In hex-beam@yahoogroups.com, "iz5diy" <s.gaggini@l...> wrote:
> > Hi,
> >
> > I am looking for measure for insulated copper.
> > I read DL7IO pdf file and I think I'll send his path but I have not
> > "nude" copper and all measure refer to this type.
> >
> > 73 de Silvio, IZ5DIY
>
> Tnx Bob, I have my coppers at right lenght.
>
> And what about insulator distance between W and M? Can I use same
> writed in DL7IO projects?
>
> Tnx for reply.
> 73 de Silvio, IZ5DIY
>
>

_____
Do you Yahoo!?
Yahoo! Hotjobs: Enter the "Signing Bonus" Sweepstakes
http://hotjobs.sweepstakes.yahoo.com/signingbonus

1827. [hex-beam] Hex Beam for Sale (5 Band)

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-08 21:48:23 UTC
From: Marty N5NW
Topic: 1591 Message: 1827

I have acquired an HX5B, very good condition, currently disassembled. I have all the hardware. S/N is 073. I plan on moving in the next couple of years and don't want to hassle with it. Nobody wanted the combo beam/tower, so I'm separating. I'd sell the antenna for US$650 and the tower for US$350. The tower is aluminum, and perfect for the hex -- 5 8foot sections, taper in the middle section from an appx 12 inch base to an 8 inch top section. Tower is on the ground in Bellbrook, Ohio, a SE suburb of Dayton, Ohio. You can easily pick it up while visiting for Hamvention, if you want.

All costs plus actual packing and shipping. Can't ship the tower - sorry.

Would consider trade for excellent condition Yaesu FT-847 with the Collins CW filter.

de N5NW (Marty)
Bellbrook, Ohio

NNN0RBB -- US Navy Marine Corps MARS
Life Member, ARRL
Official Observer

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hex-beam-unsubscribe@yahoogroups.com

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http://docs.yahoo.com/info/terms/

1828. Hex Home Frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-10 15:48:42 UTC
From: lengail2
Topic: 1271 Message: 1828

I have tuned to all of the Hex home frequencies for several days and
I never hear anyone. What's the protocal? Should I be calling?

Maybe it's because I'm using and R7 vertical and really need a Hex
Beam(Hi).

Len...
K6LRF

1829. RE: [hex-beam] Hex Home Frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-10 16:53:03 UTC
From: Ed Fox
Topic: 1271 Message: 1829

I use a hex and I have the same problem :-)
Try posting a time & freq for a sched. 12 to 24 hrs in advance and perhaps a few of us could join you. Ed, N0OQ (MINNESOTA).

>From: "lengail2" <lengail@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] Hex Home Frequencies
>Date: Sat, 10 Jan 2004 15:48:42 -0000
>
>I have tuned to all of the Hex home frequencies for several days and
>I never hear anyone. What's the protocal? Should I be calling?
>
>Maybe it's because I'm using and R7 vertical and really need a Hex
>Beam(Hi).
>
>Len...
>K6LRF
>

_____
Check out the new MSN 9 Dial-up ? fast & reliable Internet access with prime features! http://join.msn.com/?pgmarket=en-us&page=dialup/home&ST=1

1830. Re: Hex Home Frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-10 17:14:34 UTC
From: w4wb
Topic: 1271 Message: 1830

Roger that Ed, but I think Len has figured out the real problem ...
he needs to have the Hex-Beam rather than the R7. Justification is
always a good ploy with the XYL here I have found. hi hi
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Ed Fox" <elfox@h...> wrote:
> I use a hex and I have the same problem :-)
> Try posting a time & freq for a sched. 12 to 24 hrs in advance and
perhaps a
> few of us could join you. Ed, N0OQ (MINNESOTA).
>
>
> >From: "lengail2" <lengail@e...>
> >Reply-To: hex-beam@yahoogroups.com
> >To: hex-beam@yahoogroups.com
> >Subject: [hex-beam] Hex Home Frequencies
> >Date: Sat, 10 Jan 2004 15:48:42 -0000
> >
> >I have tuned to all of the Hex home frequencies for several days
and
> >I never hear anyone. What's the protocal? Should I be calling?
> >
> >Maybe it's because I'm using and R7 vertical and really need a Hex
> >Beam(Hi).
> >
> >Len...
> >K6LRF
> >
>
> _____
> Check out the new MSN 9 Dial-up ☐ fast & reliable Internet access
with prime
> features! http://join.msn.com/?pgmarket=en-us&page=dialup/home&ST=1

1831. Re: [hex-beam] Digest Number 471

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-10 19:17:14 UTC
From: Dirk
Topic: 1831 Message: 1831

hi all if you dont hear anything call cq, some one bound to just be waiting to hear your note. thats whati always do. sometimes i win sometimes i dont . thats amateur radio, we all have chores too .dirk

1832. Re: Hex Home Frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-10 19:54:10 UTC
From: w6hb
Topic: 1271 Message: 1832

Does anyone want to propose other or replacement frequencies? Would anyone who has the time want to start up some HexNut Nets?

73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "lengail2" <lengail@e...> wrote:
> I have tuned to all of the Hex home frequencies for several days
and
> I never hear anyone. What's the protocal? Should I be calling?
>
> Maybe it's because I'm using and R7 vertical and really need a Hex
> Beam(Hi).
>
> Len...
> K6LRF

1833. Re: [hex-beam] Re: Hex Home Frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-10 19:59:33 UTC
From: Duke
Topic: 1271 Message: 1833

Get on 17M. Lots of Hex-Beamer on there.
R7 vertical needs to go on eBay ASAP!

----- Original Message -----
From: w6hb
To: hex-beam@yahoogroups.com
Sent: Saturday, January 10, 2004 11:54 AM
Subject: [hex-beam] Re: Hex Home Frequencies

Does anyone want to propose other or replacement frequencies? Would
anyone who has the time want to start up some HexNut Nets?

73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "lengail2" <lengail@e...> wrote:
> I have tuned to all of the Hex home frequencies for several days
and
> I never hear anyone. What's the protocal? Should I be calling?
>
> Maybe it's because I'm using and R7 vertical and really need a Hex
> Beam(Hi).
>
> Len...
> K6LRF

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[Non-text portions of this message have been removed]

1834. Re: [hex-beam] Re: Hex Home Frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-10 20:14:45 UTC
From: SJD N6RRV
Topic: 1271 Message: 1834

what freq?

SCOTT J. DICKINSON N6RRV
----- Original Message -----
From: Duke
To: hex-beam@yahoogroups.com
Sent: Saturday, January 10, 2004 11:59 AM
Subject: Re: [hex-beam] Re: Hex Home Frequencies

Get on 17M. Lots of Hex-Beamer on there.
R7 vertical needs to go on eBay ASAP!

----- Original Message -----
From: w6hb
To: hex-beam@yahoogroups.com
Sent: Saturday, January 10, 2004 11:54 AM
Subject: [hex-beam] Re: Hex Home Frequencies

Does anyone want to propose other or replacement frequencies? Would
anyone who has the time want to start up some HexNut Nets?

73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "lengail2" <lengail@e...> wrote:
> I have tuned to all of the Hex home frequencies for several days
and
> I never hear anyone. What's the protocal? Should I be calling?
>
> Maybe it's because I'm using and R7 vertical and really need a Hex
> Beam(Hi).
>
> Len...
> K6LRF

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[Non-text portions of this message have been removed]

1835. Re: [hex-beam] Re: Hex Home Frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-10 20:24:33 UTC
From: Duke
Topic: 1271 Message: 1835

No particular frequency. Band is narrow enough so if you tuned around, you would run into somebody with a HexBeam sometimes.

----- Original Message -----
From: SJD N6RRV
To: hex-beam@yahoogroups.com
Sent: Saturday, January 10, 2004 12:14 PM
Subject: Re: [hex-beam] Re: Hex Home Frequencies

what freq?

SCOTT J. DICKINSON N6RRV
----- Original Message -----
From: Duke
To: hex-beam@yahoogroups.com
Sent: Saturday, January 10, 2004 11:59 AM
Subject: Re: [hex-beam] Re: Hex Home Frequencies

Get on 17M. Lots of Hex-Beamer on there.
R7 vertical needs to go on eBay ASAP!

----- Original Message -----
From: w6hb
To: hex-beam@yahoogroups.com
Sent: Saturday, January 10, 2004 11:54 AM
Subject: [hex-beam] Re: Hex Home Frequencies

Does anyone want to propose other or replacement frequencies? Would anyone who has the time want to start up some HexNut Nets?

73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "lengail2" <lengail@e...> wrote:
> I have tuned to all of the Hex home frequencies for several days
and
> I never hear anyone. What's the protocal? Should I be calling?
>
> Maybe it's because I'm using and R7 vertical and really need a Hex
> Beam(Hi).
>
> Len...
> K6LRF

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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

1836. Re: [hex-beam] Re: Hex Home Frequencies

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-10 20:30:35 UTC
From: SJD N6RRV
Topic: 1271 Message: 1836

do you hear Don on 18.147....you ought to ask don for a audio report
SCOTT J. DICKINSON N6RRV
----- Original Message -----
From: Duke
To: hex-beam@yahoogroups.com
Sent: Saturday, January 10, 2004 12:24 PM
Subject: Re: [hex-beam] Re: Hex Home Frequencies

No particular frequency. Band is narrow enough so if you tuned around, you would run into somebody with a HexBeam sometimes.

----- Original Message -----
From: SJD N6RRV
To: hex-beam@yahoogroups.com
Sent: Saturday, January 10, 2004 12:14 PM
Subject: Re: [hex-beam] Re: Hex Home Frequencies

what freq?

SCOTT J. DICKINSON N6RRV
----- Original Message -----
From: Duke
To: hex-beam@yahoogroups.com
Sent: Saturday, January 10, 2004 11:59 AM
Subject: Re: [hex-beam] Re: Hex Home Frequencies

Get on 17M. Lots of Hex-Beamer on there.
R7 vertical needs to go on eBay ASAP!

----- Original Message -----
From: w6hb
To: hex-beam@yahoogroups.com
Sent: Saturday, January 10, 2004 11:54 AM
Subject: [hex-beam] Re: Hex Home Frequencies

Does anyone want to propose other or replacement frequencies? Would
anyone who has the time want to start up some HexNut Nets?

73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "lengail2" <lengail@e...> wrote:
> I have tuned to all of the Hex home frequencies for several days
and
> I never hear anyone. What's the protocal? Should I be calling?
>
> Maybe it's because I'm using and R7 vertical and really need a Hex
> Beam(Hi).

>
> Len...
> K6LRF

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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

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http://groups.yahoo.com/group/hex-beam/

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c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

1837. newbe.

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-12 06:34:21 UTC
From: Johnny
Topic: 1837 Message: 1837

Hi All,
I'm new to ham, only have my tech ticket, but am working on my code
and general. I'm KD7TMY and am glad i found a ham related group here.
I'll be doing a lot of learning in the near future, I hope. I live in
Tucson AZ. and have been down here to long. The temps dropped to the
40's and I about froze!! But when my XYL and I retire we will be
heading back to the frozen tundra of northern WI. (up north, hea)
About 55 miles north of Green Bay. I go by the handle of Johnny. I
look forward to getting to know some of you in the near future.
Johnny

1838. 15 mt SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-12 15:03:48 UTC
From: iz5diy
Topic: 1838 Message: 1838

Hi,

I've got my homebrew multiband hex antenna.
I built a 20-15-10 mt triband antenna in this last days.

I used insulated copper and I follow DL7IO project plan. (I had to retouch element's lenght).

I decided to build a "pre-release" version of Hex to test it. Many little things (on construction side) could be better but I built it for a "garden" test and I need better solution for a fixed installation.

To feed antenna I used two "wide" copper (as DL7IO project). Coax start at top.

Antenna runs, very fine (compared with a windom antenna), I can see effect of directivity, signal are stronger (and less noise).
All my test was with a 8 meter high antenna.
20 meter SWR is 1:1 at 14150 and under 1.3 over the band.
15 meter SWR is from 1.3 to 2 over this band. Minimal at 21150.
10 meter SWR is from 1.4 to 2 over this band.

So things are good but should be better...
I've tried to reduce 15 meter SWR. No lenght change (minimal is at 21150), so I've moved up and down insulator distance. I didn't get really better values. So anyone can suggest me something to reduce it?

TNX 73 de Silvio, IZ5DIY

1839. Re: [hex-beam] newbe.

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-12 15:14:01 UTC
From: Robert Nowak
Topic: 1837 Message: 1839

Your comment about "55 miles north go Green Bay"
cought my eye. Exactly where? My roots are in
Wausaukee. There is a Lutheran Pastor who is very
active on the live wire site
http://groups.yahoo.com/group/Live-Wire/ . He comes
up with some of the most creatively designed antennas
you've ever seen. Another site that might be helpful
to you as a new HAM is
http://groups.yahoo.com/group/HamRadioHelpGroup/ .
I see on QRZ that you retired from the Coast Guard in
'91. I retired form the Navy in '81 and am now active
in the CG aux.
Welcome aboard!
--- Johnny <johnny_souix@...> wrote:
> Hi All,
> I'm new to ham, only have my tech ticket, but am
> working on my code
> and general. I'm KD7TMY and am glad i found a ham
> related group here.
> I'll be doing a lot of learning in the near future,
> I hope. I live in
> Tucson AZ. and have been down here to long. The
> temps dropped to the
> 40's and I about froze!! But when my XYL and I
> retire we will be
> heading back to the frozen tundra of northern WI.
> (up north, hea)
> About 55 miles north of Green Bay. I go by the
> handle of Johnny. I
> look forward to getting to know some of you in the
> near future.
> Johnny
>
>
>

Do you Yahoo!?
Yahoo! Hotjobs: Enter the "Signing Bonus" Sweepstakes
http://hotjobs.sweepstakes.yahoo.com/signingbonus

1840. Re: [hex-beam] 15m SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-14 00:02:48 UTC
From: david.douglass@optusnet.com.au
Topic: 1840 Message: 1840

Silvio,

I'd be interested to know what SWR you have on 17M and 12M also, and whether the antenna shows Front/Back ratio on these bands??

I found that a Tri-band Moxon Rectangle also worked well on the 17/12M, with a tuner, and wonder whether a Tri-Band Hex would also work work OK on the WARC Bands.

Good luck with your trials, and I wouldn't worry too much if your SWR only reaches 2:1 on 15M..

David, VK2DPD

> Date: Mon, 12 Jan 2004 15:03:48 -0000
> From: "iz5diy" <s.gaggini@...>
> Subject: 15 mt SWR
>
> Hi,
>
> I've got my homebrew multiband hex antenna.
> I built a 20-15-10 mt triband antenna in this last days.
>
> I used insulated copper and I follow DL7IO project plan. (I had to
> retouch element's lenght).
>
> I decided to build a "pre-release" version of Hex to test it. Many
> little things (on construction side) could be better but I built it
> for a "garden" test and I need better solution for a fixed
> installation.
>
> To feed antenna I used two "wide" copper (as DL7IO project). Coax
> start at top.
>
> Antenna runs, very fine (compared with a windom antenna), I can see
> effect of directivity, signal are stronger (and less noise).
> All my test was with a 8 meter high antenna.
> 20 meter SWR is 1:1 at 14150 and under 1.3 over the band.
> 15 meter SWR is from 1.3 to 2 over this band. Minimal at 21150.
> 10 meter SWR is from 1.4 to 2 over this band.
>
> So things are good but should be better...
> I've tried to reduce 15 meter SWR. No lenght change (minimal is at
> 21150), so I've moved up and down insulator distance. I didn't get
> really better values. So anyone can suggest me something to reduce

> it?
>
> TNX 73 de Silvio, IZ5DIY

1841. Re: newbe.

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-14 00:20:59 UTC
From: w6hb
Topic: 1837 Message: 1841

Welcome!

73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "Johnny" <johnny_souix@y...> wrote:
> Hi All,
> I'm new to ham, only have my tech ticket, but am working on my code
> and general. I'm KD7TMY and am glad i found a ham related group
here.
> I'll be doing a lot of learning in the near future, I hope. I live
in
> Tucson AZ. and have been down here to long. The temps dropped to
the
> 40's and I about froze!! But when my XYL and I retire we will be
> heading back to the frozen tundra of northern WI. (up north, hea)
> About 55 miles north of Green Bay. I go by the handle of Johnny. I
> look forward to getting to know some of you in the near future.
> Johnny

1842. Hex-Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-14 02:05:16 UTC
From: gfarek
Topic: 1842 Message: 1842

How about a NET for Hex users, homebrew or store bought and anyone interested in them. Say on 17 Meters and 20 Meters.

1843. another hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-14 00:34:02 UTC
From: Paul
Topic: 1843 Message: 1843

Greetings

Lot of good information here, so, I said, said I, why not put it to use.... So far I have a plywood disk cut, drilled and waterproofed, the upper and lower mast sections ready, and the fishin' ($6 each at the flea market) poles ready to attach. Not counting the cost of the rotor (flea market?), I can't see having more than $45 into the project. Enough photos without me taking up space, (well, maybe one once I get it in the air) but just a note of thanks....

Paul
w4got

1844. Re: Hex-Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-15 04:46:37 UTC
From: lengail2
Topic: 1842 Message: 1844

--- In hex-beam@yahoogroups.com, "gfarek" <gfarek@y...> wrote:
> How about a NET for Hex users, homebrew or store bought and anyone
> interested in them. Say on 17 Meters and 20 Meters.

A great idea.
I know I'll buy a Hex soon. I just have to determine where to put
it. In the city or in the country. Lots of concerns about mast and
placement around trees and other problems. Lots of questions.

Len... K6LRF

1845. Re: [hex-beam] Re: Hex-Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-15 11:48:04 UTC
From: Barry Baker
Topic: 1842 Message: 1845

I'm in for a HexNet. 20 meters sounds good. Let's take a vote for timing. I am thinking Sunday mornings. Anybody else interested?

Barry in Missouri
KØQV
----- Original Message -----
From: lengail2
To: hex-beam@yahoogroups.com
Sent: Wednesday, January 14, 2004 10:46 PM
Subject: [hex-beam] Re: Hex-Net

--- In hex-beam@yahoogroups.com, "gfarek" <gfarek@y...> wrote:
> How about a NET for Hex users, homebrew or store bought and anyone
> interested in them. Say on 17 Meters and 20 Meters.

A great idea.
I know I'll buy a Hex soon. I just have to determine where to put
it. In the city or in the country. Lots of concerns about mast and
placement around trees and other problems. Lots of questions.

Len... K6LRF

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[Non-text portions of this message have been removed]

1846. Re: [hex-beam] Re: Hex-Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-15 15:46:21 UTC
From: K7Max
Topic: 1842 Message: 1846

I expect to receive my HX5 this Friday.....hopefully by Sunday I should have it "on the air". Someone pick a time and freq for the HexNet and I'll be there.

de K7MAX Phoenix, Az.

1847. Re: [hex-beam] Re: Hex-Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-15 18:51:35 UTC
From: Paulo Marcondes
Topic: 1842 Message: 1847

--- lengail2 <lengail@...> wrote:
> --- In hex-beam@yahoogroups.com, "gfarek" <gfarek@y...>
> wrote:
> > How about a NET for Hex users, homebrew or store bought
> and anyone
> > interested in them. Say on 17 Meters and 20 Meters.
>
> A great idea.

Look in the groups page for the home frequencies of the
already scheduled net.
I?ve never been there, since I am only able to type.

CU

=====
--
Paulo E.P. Marcondes marcondes at rocketmail dot com
ICQ# 28468654 :: Linux User #137761
Software ? a parte que voc? xinga, hardware ? a parte que voc? chuta.

_____
Do you Yahoo!?
Yahoo! Hotjobs: Enter the "Signing Bonus" Sweepstakes
http://hotjobs.sweepstakes.yahoo.com/signingbonus

1848. Antenna analyzer

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-15 19:53:20 UTC
From: datosa2001
Topic: 1848 Message: 1848

Are you looking for a different antenna analyzer?

Take a look at http://members.xoom.virgilio.it/iw3hev

73's de iw3hev

Davide

1849. Re: [hex-beam] Digest Number 475

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-17 03:55:15 UTC
From: Len Johnson
Topic: 1849 Message: 1849

Sounds good to me....K6LRF
----- Original Message -----
From: <hex-beam@yahoogroups.com>
To: <hex-beam@yahoogroups.com>
Sent: Friday, January 16, 2004 2:02 AM
Subject: [hex-beam] Digest Number 475

There are 4 messages in this issue.

Topics in this digest:

1. Re: Re: Hex-Net
From: "Barry Baker" <k0qv@...>
2. Re: Re: Hex-Net
From: "K7Max" <k7max@...>
3. Re: Re: Hex-Net
From: Paulo Marcondes <marcondes@...>
4. Antenna analyzer
From: "datosa2001" <datos@...>

Message: 1
Date: Thu, 15 Jan 2004 05:48:04 -0600
From: "Barry Baker" <k0qv@...>
Subject: Re: Re: Hex-Net

I'm in for a HexNet. 20 meters sounds good. Let's take a vote for timing. I
am thinking Sunday mornings. Anybody else interested?

Barry in Missouri
K?QV
----- Original Message -----
From: lengail2
To: hex-beam@yahoogroups.com
Sent: Wednesday, January 14, 2004 10:46 PM
Subject: [hex-beam] Re: Hex-Net

--- In hex-beam@yahoogroups.com, "gfarek" <gfarek@y...> wrote:
> How about a NET for Hex users, homebrew or store bought and anyone
> interested in them. Say on 17 Meters and 20 Meters.

A great idea.
I know I'll buy a Hex soon. I just have to determine where to put
it. In the city or in the country. Lots of concerns about mast and
placement around trees and other problems. Lots of questions.

Len... K6LRF

--
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[Non-text portions of this message have been removed]

Message: 2
Date: Thu, 15 Jan 2004 08:46:21 -0700
From: "K7Max" <k7max@...>
Subject: Re: Re: Hex-Net

I expect to receive my HX5 this Friday.....hopefully by Sunday I
should have it "on the air". Someone pick a time and freq for the HexNet
and I'll be there.

de K7MAX Phoenix, Az.

Message: 3
Date: Thu, 15 Jan 2004 10:51:35 -0800 (PST)
From: Paulo Marcondes <marcondes@...>
Subject: Re: Re: Hex-Net

--- lengail2 <lengail@...> wrote:
> --- In hex-beam@yahoogroups.com, "gfarek" <gfarek@y...>
> wrote:
> > How about a NET for Hex users, homebrew or store bought
> and anyone
> > interested in them. Say on 17 Meters and 20 Meters.
>
> A great idea.

Look in the groups page for the home frequencies of the
already scheduled net.
I?ve never been there, since I am only able to type.

CU

=====
--

Paulo E.P. Marcondes marcondes at rocketmail dot com
ICQ# 28468654 :: Linux User #137761
Software ? a parte que voc? xinga, hardware ? a parte que voc? chuta.

_____
Do you Yahoo!?
Yahoo! Hotjobs: Enter the "Signing Bonus" Sweepstakes
http://hotjobs.sweepstakes.yahoo.com/signingbonus

Message: 4
Date: Thu, 15 Jan 2004 19:53:20 -0000
From: "datosa2001" <datos@...>
Subject: Antenna analyzer

Are you looking for a different antenna analyzer?

Take a look at http://members.xoom.virgilio.it/iw3hev

73's de iw3hev

Davide

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http://docs.yahoo.com/info/terms/

1850. Re: 15 mt SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-17 14:58:35 UTC
From: ve3cwo
Topic: 1838 Message: 1850

--- In hex-beam@yahoogroups.com, "iz5diy" <s.gaggini@l...> wrote:
> Hi,
>
> I've got my homebrew multiband hex antenna.
> I built a 20-15-10 mt triband antenna in this last days.

> 20 meter SWR is 1:1 at 14150 and under 1.3 over the band.
> 15 meter SWR is from 1.3 to 2 over this band. Minimal at 21150.
> 10 meter SWR is from 1.4 to 2 over this band.
>
> So things are good but should be better...
> I've tried to reduce 15 meter SWR. No lenght change (minimal is at
> 21150), so I've moved up and down insulator distance. I didn't get
> really better values. So anyone can suggest me something to reduce
it?
>
> TNX 73 de Silvio, IZ5DIY

Hello, Silvio - - I found that making avery small changes of length on the reflector element resulted in noticeable changes in the SWR after I had the driven element tuned to resonance. To make quick tests of how the SWR curve and shape are affected, start by clipping and alligator clip at each insulator of the 15 m element, or wrapping a short pigtail of wire to extend it temporarliy. If this takes you in the unwanted direction for improving the SWR, then you will have to slightly shorten each reflector element. In the five-band hexes that I built (both of them) the 15 metre element seemed to be among the most critical.

By the way, you might also try moving your feedpoint to the 15 m element, and slightly retune the 10 / 20 elements. On the second hex that I built, I am feeding at the 17 m element, with very good success.

73, Doug, VE3CWO

1851. EI Hexbeaming

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-17 12:17:37 UTC
From: Andy Jay
Topic: 1851 Message: 1851

My call is EI5JF and the QTH is Cashel in county TIpperary. I have had a Hexbeam here now since last summer and am greatly impressed with it. I have the 5 band version for 10 to 20 metres and must say that it has transformed my hobby. I don't think there are any other Hexbeams in EI land and would like to hear from any other users either in EI or elsewhere to exchange thoughts and impressions on the antenna. I have the beam up at about 30 feet on the side of the Bungalow on the apex of the roof. I am new to the user group and will be happy to hear from any other converts to the beam from anywhere !! Can be emailed direct to the EI5jf@... address

Andy Jay EI5JF G0JAY Tipperary Ireland.

[Non-text portions of this message have been removed]

1852. Re: [hex-beam] Re: 15 mt SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-17 19:32:50 UTC
From: jerry farek
Topic: 1838 Message: 1852

I absolutely agree with VE3CWO Doug. Also watch out for interaction with other structures around the proximity of you antenna. These are a few of the answers, there are probably 100 other causes too. Note to always change you reflector length whrn you change the driven element length. 73's Jerry N5GND

ve3cwo <ve3cwo@...> wrote:--- In hex-beam@yahoogroups.com, "iz5diy" <s.gaggini@l...> wrote:
> Hi,
>
> I've got my homebrew multiband hex antenna.
> I built a 20-15-10 mt triband antenna in this last days.

> 20 meter SWR is 1:1 at 14150 and under 1.3 over the band.
> 15 meter SWR is from 1.3 to 2 over this band. Minimal at 21150.
> 10 meter SWR is from 1.4 to 2 over this band.
>
> So things are good but should be better...
> I've tried to reduce 15 meter SWR. No lenght change (minimal is at
> 21150), so I've moved up and down insulator distance. I didn't get
> really better values. So anyone can suggest me something to reduce
it?
>
> TNX 73 de Silvio, IZ5DIY

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By the way, you might also try moving your feedpoint to the 15 m element, and slightly retune the 10 / 20 elements. On the second hex that I built, I am feeding at the 17 m element, with very good success.

73, Doug, VE3CWO

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[Non-text portions of this message have been removed]

1853. Re: EI Hexbeaming

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-18 02:48:13 UTC
From: w6hb
Topic: 1851 Message: 1853

Welcome Andy! Check out John, EI7BA, and his homebrew 17 meter Hex at
http://www,qsl.net/ei7ba.

73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "Andy Jay" <ei5jf@d...> wrote:
>
>
> My call is EI5JF and the QTH is Cashel in county TIpperary. I have
had a
> Hexbeam here now since last summer and am greatly impressed with
it. I
> have the 5 band version for 10 to 20 metres and must say that it
has
> transformed my hobby. I don't think there are any other Hexbeams
in EI
> land and would like to hear from any other users either in EI or
elsewhere
> to exchange thoughts and impressions on the antenna. I have the
beam up at
> about 30 feet on the side of the Bungalow on the apex of the
roof. I am
> new to the user group and will be happy to hear from any other
converts to
> the beam from anywhere !! Can be emailed direct to the EI5jf@d...
address
>
>
>
> Andy Jay EI5JF G0JAY Tipperary Ireland.
>
> [Non-text portions of this message have been removed]

1854. HEXNUTS UnNet

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-18 03:11:45 UTC
From: w6hb
Topic: 1854 Message: 1854

I HAVE SEEN A NUMBER OF SUGGESTIONS THAT THE HEXNUTS GET TOGETHER ON A COMMON FREQUENCY / FREQUENCIES. DURING THE BETTER SUNSPOT NUMBERS A COUPLE YEARS AGO, A NUMBER OF US WERE ABLE TO DO SO REGULARLY ON 10 METERS. THE FREQUENCIES POSTED ON THIS USER'S GROUP FRONT PAGE CONTINUE TO BE A GOOD STARTING POINT. GERRY, N5GND, AND I WILL TRY TO CONVENE / MODERATE A WEEKLY "HEXNUT PARTY" ON OUR SUNDAYS. DUE TO THE IMPACT CONTESTS HAVE ON REGULARLY SCHEDULED NETS AND SUCH, I SUGGEST WE STICK WITH THE 17 METER WARC BAND INITIALLY. AFTER THE GROUP GETS GOING ANYONE CAN QSY ANYWHERE TO CHECK OUT PROPAGATION AND TO CHASE THE ILLUSIVE HXCC WARD. THE KICKOFF SESSION WILL BE:

JANUARY 18TH ON 18.156 MHZ (+/- QRM) USB STARTING AT 2000 UTC (1200 PST, 1300 MST, 1400 CST, 1500 EST)

WE LOOK FORWARD TO SEEING YOU ON THE AIR. WE WILL BE LOOKING FOR OTHER FOLKS TO SERVE AS MODERATORS AND RELAY STATIONS AS TIME PROGRESSES. FEEL FREE TO E-MAIL GERRY OR ME WITH ANY IDEAS YOU MAY HAVE. WE ARE BOTH GOOD ON QRZ.COM. KNOWING WE HAVE MANY CW HEXNUTS ALSO, THEY MAY WANT TO SET UP SIMILAR ACTIVITIES.

73 - DOUG - W6HB

1855. Re: [hex-beam] HEXNUTS UnNet

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-18 03:22:53 UTC
From: Makoto Tanaka
Topic: 1854 Message: 1855

2000UTC is 0500JST !! It is too early to open the band between
NA and JA. I worked with KD5MXE Bob at 0006 UTC on 17meter
last weekend with Hex to Hex which was very easy QSO.
I will ask NZ7X/DU1 Marty and NH2PW Phil to join the net over
the Pacific so that can you get on the air at 2300UTC on the
same frequency as a second round net?

73, Shin - JR1NHD (wising to join the net from Far East)

----- Original Message -----
From: w6hb
To: hex-beam@yahoogroups.com
Sent: Sunday, January 18, 2004 12:11 PM
Subject: [hex-beam] HEXNUTS UnNet

I HAVE SEEN A NUMBER OF SUGGESTIONS THAT THE HEXNUTS GET TOGETHER ON
A COMMON FREQUENCY / FREQUENCIES. DURING THE BETTER SUNSPOT NUMBERS A
COUPLE YEARS AGO, A NUMBER OF US WERE ABLE TO DO SO REGULARLY ON
10 METERS. THE FREQUENCIES POSTED ON THIS USER'S GROUP FRONT PAGE
CONTINUE TO BE A GOOD STARTING POINT. GERRY, N5GND, AND I WILL TRY TO
CONVENE / MODERATE A WEEKLY "HEXNUT PARTY" ON OUR SUNDAYS. DUE TO THE
IMPACT CONTESTS HAVE ON REGULARLY SCHEDULED NETS AND SUCH, I SUGGEST
WE STICK WITH THE 17 METER WARC BAND INITIALLY. AFTER THE GROUP GETS
GOING ANYONE CAN QSY ANYWHERE TO CHECK OUT PROPAGATION AND TO CHASE
THE ILLUSIVE HXCC WARD. THE KICKOFF SESSION WILL BE:

JANUARY 18TH ON 18.156 MHZ (+/- QRM) USB STARTING AT 2000 UTC (1200
PST, 1300 MST, 1400 CST, 1500 EST)

WE LOOK FORWARD TO SEEING YOU ON THE AIR. WE WILL BE LOOKING FOR
OTHER FOLKS TO SERVE AS MODERATORS AND RELAY STATIONS AS TIME
PROGRESSES. FEEL FREE TO E-MAIL GERRY OR ME WITH ANY IDEAS YOU MAY
HAVE. WE ARE BOTH GOOD ON QRZ.COM. KNOWING WE HAVE MANY CW HEXNUTS
ALSO, THEY MAY WANT TO SET UP SIMILAR ACTIVITIES.

73 - DOUG - W6HB

--
Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

1856. Additional HEXNUTS UnNet

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-18 04:23:12 UTC
From: w6hb
Topic: 1856 Message: 1856

IN RESPONSE TO HEXNUTS IN THE ASIA - PACIFIC AREA, WE WILL CONVENE A SESSION ON SATURDAYS ON 18156 MHZ (+/- QRM) AT 2300 STARTING JANUARY 24. MODERATORS ARE NEEDED TO BACK UP THOSE OF US WHO ARE UNABLE TO ALWAYS BE AVAILABLE.

73 - DOUG - W6HB

1857. Re: [hex-beam] Re: EI Hexbeaming

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-18 05:42:10 UTC
From: Duke
Topic: 1851 Message: 1857

View 17m monobander Hex-Beam by Traffie Technology at http://www.qsl.net/na1a/Hexbeam/
----- Original Message -----
From: w6hb
To: hex-beam@yahoogroups.com
Sent: Saturday, January 17, 2004 6:48 PM
Subject: [hex-beam] Re: EI Hexbeaming

Welcome Andy! Check out John, EI7BA, and his homebrew 17 meter Hex at
http://www,qsl.net/ei7ba.

73 - Doug - W6HB

--- In hex-beam@yahoogroups.com, "Andy Jay" <ei5jf@d...> wrote:
>
>
> My call is EI5JF and the QTH is Cashel in county TIpperary. I have
had a
> Hexbeam here now since last summer and am greatly impressed with
it. I
> have the 5 band version for 10 to 20 metres and must say that it
has
> transformed my hobby. I don't think there are any other Hexbeams
in EI
> land and would like to hear from any other users either in EI or
elsewhere
> to exchange thoughts and impressions on the antenna. I have the
beam up at
> about 30 feet on the side of the Bungalow on the apex of the
roof. I am
> new to the user group and will be happy to hear from any other
converts to
> the beam from anywhere !! Can be emailed direct to the EI5jf@d...
address
>
>
>
> Andy Jay EI5JF G0JAY Tipperary Ireland.
>
> [Non-text portions of this message have been removed]

Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

1858. SUNDAY NET

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-18 13:15:17 UTC
From: schlott_98
Topic: 1858 Message: 1858

Hi all,

I am looking forward to the net today. I have purchased a hex beam but have not been able to erect it yet because of weather (snow) here in the Northeast. I am waiting for the snow to melt off the roof. As I am typing though its snowing again. I may have to just try it on a 10 foot pole in the yard.
73, Burke K1BJS

1859. Hex Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-18 21:54:00 UTC
From: Jason Hissong
Topic: 1859 Message: 1859

That was great! It was awesome to talk to all of you. Hope to talk to you next week. My reports:

W6HB - Doug 59+10
N5GND - Gerry 59+40
K7MAX - Max 57
KD5WBY - Michael 59+40
K1GKS - Bert 54
K4TX - Chuck 59+20
WA5GDF - Frank - No Copy
K1WZC - Bert - No Copy
VE3UGR - Roger - No Copy
N5KBY - Steve 59+10
KB3DNK - No Copy
N7IKW - Mack 55
N8ZGK - Barely copyable
W7NCP - Walt 59+10

I am sure I missed a bunch, there was alot of folks. Thanks to Gerry, N5GND, and Doug, W6HB for handling the net so well.

73!
--
Jason Hissong
http://www.n8xe.com
http://www.jasonhissong.com

1860. HexNut Partyline - GREAT Inaugural Session!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-19 02:56:06 UTC
From: w6hb
Topic: 1860 Message: 1860

Thanks to all who checked in on today's 1st "HexNut Partyline" that started at 2000 UTC on 18.156 MHZ. By my count, we had 8 Hexbeams in service and a total of approximately 20 checkins. Many folks queried us on the Hex, some had never heard about them and a few are waiting for the weather to break to order or install one. The inauguration of the Asia-Pacific session will be Saturday January 24th at 2300 UTC on 18.156 MHZ. Let's keep up the momentum! See you next weekend -- same Hex times, same Hex frequencies.

73 - Doug - W6HB

1861. Hex-Nut Partyline

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-19 04:14:59 UTC
From: gfarek
Topic: 1861 Message: 1861

Thanks to all the checkins and participants today, we had a real good start. I hope we get more next week and have more discussions on the antenna, installations, etc. 73's to all and especially Doug W6HB for helping getting it started today and moderating. Jerry- N5GND

1862. anyone have a plan ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-18 22:10:26 UTC
From: va2rc_2000
Topic: 1862 Message: 1862

Hello to all people on the group, does anybody have plan to built a hex-beam ?

I'm looking to have cutting chart and tips to built this kind of antenna.

I'looking for 12-17-30 meter band.

Thank you for your help.

Francois
VA2RC

1863. Re: [hex-beam] Hex Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-18 23:12:25 UTC
From: Jim Hedrick
Topic: 1859 Message: 1863

Yeh, the QSB killed me.

Jim AB8PV

--- Jason Hissong <jhisson1@...> wrote:
> That was great! It was awesome to talk to all of
> you. Hope to talk to
> you next week. My reports:
>
> W6HB - Doug 59+10
> N5GND - Gerry 59+40
> K7MAX - Max 57
> KD5WBY - Michael 59+40
> K1GKS - Bert 54
> K4TX - Chuck 59+20
> WA5GDF - Frank - No Copy
> K1WZC - Bert - No Copy
> VE3UGR - Roger - No Copy
> N5KBY - Steve 59+10
> KB3DNK - No Copy
> N7IKW - Mack 55
> N8ZGK - Barely copyable
> W7NCP - Walt 59+10
>
> I am sure I missed a bunch, there was alot of folks.
> Thanks to Gerry,
> N5GND, and Doug, W6HB for handling the net so well.
>
> 73!
> --
> Jason Hissong
> http://www.n8xe.com
> http://www.jasonhissong.com
>
>
>

Do you Yahoo!?
Yahoo! Hotjobs: Enter the "Signing Bonus" Sweepstakes
http://hotjobs.sweepstakes.yahoo.com/signingbonus

1864. SWR: feeding point

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-19 08:56:30 UTC
From: iz5diy
Topic: 1864 Message: 1864

In this last week-end (between rain and snow...) I tried to change feeding point. I move from top (20 mt) to 15 mt and now 21 MHz and 28 MHz are better but 14 MHz had more SWR. So the problem comes mainly from feeding line. I used two copper of 4mm2 size but now I'll go to change them with a 6mm2 one and one will be ensulated the other nude (like DL7IO).

Tnx to all for previous information.

Silvio

1865. 40 mt?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-19 11:47:22 UTC
From: iz5diy
Topic: 1865 Message: 1865

Some of us had tested / builded a hex for 40 mt?

I've see LZ2BE maa model but I've never seen a photo of a 40 mt version.
So I wonder if it can run...

73 de Silvio, IZ5DIY

1866. FIRST PARTY LINE AND TOROID QUESTION

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-19 13:30:41 UTC
From: schlott_98
Topic: 1866 Message: 1866

Hi everyone,

Enjoyed the first roundtable on 18,156. yesterday. After the signed I tried to locate an amidon part# 77-1024 toroid. (mix 77) I could not find this anywhere on the amidon web sight. I downloaded the entire toroid list from them. I see several mix 77 toroids in the list. I understand that Barry installed them on this coax.

We still have a lot of snow here but I am determined to erect my new Hex Beam this week. By the way, Radio Shack no longer lists their 36 foot telescoping mast any longer, but I found a local dealer who still has three of them at a closeout price ($50.)

73, Burke K1BJS

1867. Re: SWR: feeding point

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-19 17:14:09 UTC
From: ph0dx
Topic: 1864 Message: 1867

Hello Silvio,

I used the shielding of a RG214, flatten it and you have an verry
low impedance conductor..
I issolated one side with heat shrink tube ala DL7IO,

SWR on 15 and 10 meters went down a lot,

73's de Lourens,

PH0DX,

--- In hex-beam@yahoogroups.com, "iz5diy" <s.gaggini@l...> wrote:
> In this last week-end (between rain and snow...) I tried to change
> feeding point. I move from top (20 mt) to 15 mt and now 21 MHz and
28
> MHz are better but 14 MHz had more SWR. So the problem comes mainly
> from feeding line. I used two copper of 4mm2 size but now I'll go
to
> change them with a 6mm2 one and one will be ensulated the other nude
> (like DL7IO).
>
> Tnx to all for previous information.
>
> Silvio

1868. Re: FIRST PARTY LINE AND TOROID QUESTION

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-19 17:53:12 UTC
From: w4wb
Topic: 1866 Message: 1868

Burke,
Here is the info on the Type 77 beads.
FB-(77)-1024 http://www.amidoncorp.com/aai_ferritesshieldingbeads.htm
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "schlott_98" <BJDM@J...> wrote:
> Hi everyone,
>
> Enjoyed the first roundtable on 18,156. yesterday. After the signed
I
> tried to locate an amidon part# 77-1024 toroid. (mix 77) I could
not
> find this anywhere on the amidon web sight. I downloaded the entire
> toroid list from them. I see several mix 77 toroids in the list.
> I understand that Barry installed them on this coax.
>
> We still have a lot of snow here but I am determined to erect my
new
> Hex Beam this week. By the way, Radio Shack no longer lists their
36
> foot telescoping mast any longer, but I found a local dealer who
> still has three of them at a closeout price ($50.)
>
> 73, Burke K1BJS

1869. Re: 40 mt?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-19 17:54:53 UTC
From: w4wb
Topic: 1865 Message: 1869

--- In hex-beam@yahoogroups.com, "iz5diy" <s.gaggini@l...> wrote:
> Some of us had tested / builded a hex for 40 mt?
>
> I've see LZ2BE maa model but I've never seen a photo of a 40 mt
version.
> So I wonder if it can run...
>
> 73 de Silvio, IZ5DIY

Traffie is building a 40 m HB for me that is optimized for the CW portion of the band. Hope to get it once the wx gets good enough for him to tune it up! Next task will be to install it here.
73,
Barry W4WB

1870. New Hex-beam born

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-20 16:34:47 UTC
From: on4bbd
Topic: 1870 Message: 1870

Hello to you all,
Last Sunday I installed my home made Hex, and tested it.
Results are Vy good, meaning swr on all bands abt 1.1 exept 1.5 for 15 meter band. Impedance is varying between 45 and 50 Ohm on all bands.
Finaly, indeed, now i can hear signals witch i could not hear with FD4 wire antenna before.
It even works fine on 40 meters as well, only thing is you need an antenna-tuner and front-back-ratio is not good on 40 meters as on all other bands alldow it makes the band more silent.
For Foto's you can look in the FOTOFOLDER, pse comments!!!
73's 2uall
Marc

1871. Diameter of the 5 band hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-21 03:21:33 UTC
From: SJD N6RRV
Topic: 1871 Message: 1871

I need to know what the diameter of the 5 band hex is in the set up configuration....i know if you lay out the 5 spokes on the ground, the diameter will be about 18 feet per the specs, however, there is a 48 inch of bending upward on each spoke to tie up the wires.....given this, the diameter will be shortened.....but how much? .....has anyone done the math or actually measured it. thx

SCOTT J. DICKINSON N6RRV

[Non-text portions of this message have been removed]

1873. Re: Diameter of the 5 band hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-21 04:30:47 UTC
From: gfarek
Topic: 1871 Message: 1873

--- In hex-beam@yahoogroups.com, "SJD N6RRV" <n6rrv@c...> wrote:
> I need to know what the diameter of the 5 band hex is in the set up configuration....i know if you lay out the 5 spokes on the ground, the diameter will be about 18 feet per the specs, however, there is a 48 inch of bending upward on each spoke to tie up the wires.....given this, the diameter will be shortened.....but how much? .....has anyone done the math or actually measured it. thx
>
> SCOTT J. DICKINSON N6RRV
>
> [Non-text portions of this message have been removed]

Checkout www.hexbeam.com
They have a size comparison that says the HX5bi 5 Band Hex is 9.4 feet radius, or 18.8 feet in diameter in the operating mode. My homebuilt 5 Band is about 20 feet in diameter in the operating position, but that is because I wanted room to experiment. 73's Hope this helps your decision. Jerry N5GND

1874. NEW INSTALLATION

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-21 12:48:45 UTC
From: schlott_98
Topic: 1874 Message: 1874

Hi to all,

Well yesterday although cold in Connecticut it was quite sunny. I managed to put the 5bi together and mount it on a mast. It is 15 feeet above the ground without a rotor. I will put the rotor on today. So far swr's are all between 1.0 and 1.2 except for 17 meters where it is 1.4 to 1. Now how does it play?? So far I have only had a few hours to play with it and made a few contacts. My references for comparason are an 80 meter dipole with a tuner for 20-15-12-10 meters. For 17 meters I have a 3 half wavelenth dipole (w5GI design) This is basically a wire antenna with the horizontal made up of wire and coax. On 17 meters my "special" dipole seems to be outperforming the hex beam by about 2 s units. On the other bands, the hex is far superior to the 80 meter dipole. These observations are preliminary and I will know more when I mount the rotor.

Regards,

Burke K1BJS

1875. Re: [hex-beam] New Hex-beam born

Yahoo group: hex-beam (2001 — 2006)
Date: 2031-01-20 14:14:47 UTC [implausible archived timestamp]
From: Koos van Wyk
Topic: 1870 Message: 1875

I am reading all the inputs you send to the hex-beam@... for about a year now and is a member of yahoogroups (with password - the lot) but cannot find a way of getting into the Photofolder to see the photos you people uploaded.
Can anyone please help me with this webpage when I clicked on hex-beam@yahoogroups.com and the page is opened on my screen. Whereto now.
Koos
Malmesbury South Africa
----- Original Message -----
From: on4bbd
To: hex-beam@yahoogroups.com
Sent: Tuesday, January 20, 2004 6:34 PM
Subject: [hex-beam] New Hex-beam born

Hello to you all,
Last Sunday I installed my home made Hex, and tested it.
Results are Vy good, meaning swr on all bands abt 1.1 exept 1.5 for
15 meter band. Impedance is varying between 45 and 50 Ohm on all
bands.
Finaly, indeed, now i can hear signals witch i could not hear with
FD4 wire antenna before.
It even works fine on 40 meters as well, only thing is you need an
antenna-tuner and front-back-ratio is not good on 40 meters as on
all other bands alldow it makes the band more silent.
For Foto's you can look in the FOTOFOLDER, pse comments!!!
73's 2uall
Marc

Yahoo! Groups Links

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c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

1876. Re: [hex-beam] New Hex-beam born

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-21 18:08:38 UTC
From: Marc Ceusters
Topic: 1870 Message: 1876

Hello Koos,
Try this link http://photos.groups.yahoo.com/group/hex-beam/lst
Kind regards
Marc
Koos van Wyk <kvwyk@...> wrote:
I am reading all the inputs you send to the hex-beam@... for about a year now and is a member of yahoogroups (with password - the lot) but cannot find a way of getting into the Photofolder to see the photos you people uploaded.
Can anyone please help me with this webpage when I clicked on hex-beam@yahoogroups.com and the page is opened on my screen. Whereto now.
Koos
Malmesbury South Africa
----- Original Message -----
From: on4bbd
To: hex-beam@yahoogroups.com
Sent: Tuesday, January 20, 2004 6:34 PM
Subject: [hex-beam] New Hex-beam born

Hello to you all,
Last Sunday I installed my home made Hex, and tested it.
Results are Vy good, meaning swr on all bands abt 1.1 exept 1.5 for
15 meter band. Impedance is varying between 45 and 50 Ohm on all
bands.
Finaly, indeed, now i can hear signals witch i could not hear with
FD4 wire antenna before.
It even works fine on 40 meters as well, only thing is you need an
antenna-tuner and front-back-ratio is not good on 40 meters as on
all other bands alldow it makes the band more silent.
For Foto's you can look in the FOTOFOLDER, pse comments!!!
73's 2uall
Marc

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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

1877. NEW INSTALLATION

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-23 15:12:00 UTC
From: schlott_98
Topic: 1874 Message: 1877

Good morning to all,

Yesterday I got as much ice and snow off my roof here in Ct. and finally got my new 5bi up and running. It is about 5 feet above the peak of the house using a chimney mount. That puts it about 35 feet above the ground immediately surrounding the house. Our home sits on a hill looking down on our street. To the East,South and West the antenna looks at a height of around 60 feet due to the steep slope of our lot.

So far the results have been most gratifing. On 17 I compare it to my 3 half wavelength W5GI collinear dipole. On all the other bands I use an 80 meter dipole with a tuner. The antenna on 17 is about 2 units better than the W5GI. The only other band that I have any comparason so far is 20 meters where it is incredibly better than my 80 meter dipole.

The antenna is showing an average swr of 1.2 to one on all bands except 17 meters where in the middle of the band around 18.140 the swr is 1.4... The lowest swr shown is at 18.230 using the mfj analyzer in the basic mode. Here it is 1.2 to one... Now when I use the advanced mode of the mfj.. zero reactance, which supposedly the resonant point of the antenna, it shows resonance at 18.130... I am going to try changing the length of the feedline and if that does nothing I will try the ferrite beads when they arrive.

More to follow.

73, Burke K1BJS

1878. new member ralph

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-25 09:37:03 UTC
From: ralph loomans
Topic: 1878 Message: 1878

new in the group hey to all and a great weekend with alot of fun on the radio greetz and best 73'ss ralph

---
Do you Yahoo!?
Yahoo! SiteBuilder - Free web site building tool. Try it!

[Non-text portions of this message have been removed]

1879. New Owner

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-26 01:33:56 UTC
From: Stephen D. Jonas
Topic: 1879 Message: 1879

Just a quick note to let all of you know that I have just put up a 5 band Hex-Beam on a 50 Aluma Tower. Initial results are at best phenomenal. We have heard and talked with places we were enable to hear much less talk with.

Steve Jonas K4SDJ
Savannah, GA

1880. Re: New Owner

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-26 10:00:27 UTC
From: onl10659_1
Topic: 1879 Message: 1880

--- In hex-beam@yahoogroups.com, "Stephen D. Jonas" <jonass@c...>
wrote:hey steve congrats whit the hexbeam alot of good luck whit
it ,iam looking for the plans from a hexbeam i wanne build it by
myself bud no plans availeble here so if you could copy yours and
send them over to me in belgium i would be greatfull if i can do
aniting for you let me now thanks in advandce ralph best 73'sssss
> Just a quick note to let all of you know that I have just put up a
5
> band Hex-Beam on a 50 Aluma Tower. Initial results are at best
> phenomenal. We have heard and talked with places we were enable
to hear
> much less talk with.
>
> Steve Jonas K4SDJ
> Savannah, GA

1881. ice and swr

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-26 11:15:23 UTC
From: andycashel
Topic: 1881 Message: 1881

Hello Group
Does any other Hex user have problems with Ice and SWR problems. I got the beam in the summer and it has been working very well for me and I am very impressed with it.. Today I went to go on air and the SWR was up on all bands.... I went out and looked up at the antenna and can see ice coming down the feeder where it loops up from the Rotator. Am going to get some binoculers and have a closer look, but cant see why it has started to show high SWR. Does any one else have this problem. I have discussed this with other guys and they dont normally have problems with ice and feeders in the winter. Only -2 here and not exactly artic conditions.. !!
All the best
Andy Cashel Co. Tipperary Ireland.. reply via email also..

1882. hexbeam looking for costruction plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-26 12:09:42 UTC
From: onl10659_1
Topic: 1882 Message: 1882

hey to all iam looking for the plans for the hexbeam 5 bander i could use alot of help anybody volentary for this who can supply my whit the construction plans for it thanks in advandce greetz ralphbest 73's to all

1883. Re: ice and swr

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-26 14:18:53 UTC
From: w4wb
Topic: 1881 Message: 1883

--- In hex-beam@yahoogroups.com, "andycashel" <ei5jf@d...> wrote:
> Hello Group
> Does any other Hex user have problems with Ice and SWR problems. I
> got the beam in the summer and it has been working very well for me
> and I am very impressed with it.. Today I went to go on air and the
> SWR was up on all bands.... I went out and looked up at the antenna
> and can see ice coming down the feeder where it loops up from the
> Rotator. Am going to get some binoculers and have a closer look,
> but cant see why it has started to show high SWR. Does any one
> else have this problem. I have discussed this with other guys and
> they dont normally have problems with ice and feeders in the
winter.
> Only -2 here and not exactly artic conditions.. !!
> All the best
> Andy Cashel Co. Tipperary Ireland.. reply via email also..

Ice can detune your antenna if the wires are coated significantly.
True for Hex-Beams as well as any other wire antenna.
73,
Barry W4WB

1884. Re: [hex-beam] hexbeam looking for costruction plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-26 16:29:04 UTC
From: Marc Ceusters
Topic: 1882 Message: 1884

Hey Ralph,
Can I talk (write) duth???

if you have any problems with the files from DL7io pse let me know, i made some changes.
73's Marc

onl10659_1 <onl10659_1@...> wrote:
hey to all iam looking for the plans for the hexbeam 5 bander i
could use alot of help anybody volentary for this who can supply my
whit the construction plans for it thanks in advandce greetz
ralphbest 73's to all

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[Non-text portions of this message have been removed]

1885. Re: hexbeam looking for costruction plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-26 16:53:04 UTC
From: onl10659_1
Topic: 1882 Message: 1885

--- In hex-beam@yahoogroups.com, Marc Ceusters <on4bbd@y...> wrote:

hey marc ja ja schrijf maar nederlands no prob, ja ben daar eens goed gaan kijken maar toch zeer onduidelijk of mis ik iets ?? ,ja marc zoals gezegd ben een degelijk plan aan het zoeken om een hexbeam te bouwen de revieuw's die ik gelezen heb zijn formidabel dus zeer bevredigend voor mij dus als jij me zou willen helpen aan de plans en toestanden zou ik dat zeer op prijs stellen momenteel ben ik mij aan het voor bereiden voor het examen dat in april of mei zal plaatsvinden dus maar als ontspanning doe ik wel eens een antenne bouwen dit lijkt mij een zeer goed ding om te ontstressen hi hi heb mij voornamelijk met drad antennes bezig gehouwen nu wil ik wel eens iets anders bouwen en kan daar wel enige hulp bij gebruiken zoals iemand die zoiets al heeft gebouwd dus hopend op een volgende reaktie van jou thanks in advandce greetz ralph 73'ssss

> Hey Ralph,
> Can I talk (write) duth???
>
> if you have any problems with the files from DL7io pse let me
know, i made some changes.
> 73's Marc
>
> onl10659_1 <onl10659_1@y...> wrote:
> hey to all iam looking for the plans for the hexbeam 5 bander i
> could use alot of help anybody volentary for this who can supply
my
> whit the construction plans for it thanks in advandce greetz
> ralphbest 73's to all
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>
> [Non-text portions of this message have been removed]

1886. Re: [hex-beam] ice and swr

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-26 17:44:13 UTC
From: IslPilot@aol.com
Topic: 1881 Message: 1886

Andy:

I live in Northern Michigan right off the lake and normally will have a considerable build up, no problem with SWR usually melts right off after the linear is cooking.

On my sailboat I have problems with salt ruining things and some industrial pollution will do the same thing...

Paul
KB8VWV

[Non-text portions of this message have been removed]

1887. Re: [hex-beam] Re: hexbeam looking for costruction plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-26 18:25:19 UTC
From: Marc Ceusters
Topic: 1882 Message: 1887

Hey again Ralph,
ok ik zal het deze keer in het nederlands doen hihi.
Wel als je niet te ver hier vandaan woont kan je van het weekend es komen kijken op onze contest-lokatie: nl. in Schaffen bij Diest.
Dit weekend doen we mee aan de ON SSB contest met de 5-band HEXBEAM. Mocht je de kans hebben eens te komen kijken; altijd welkom, wat je ziet hoeft dikwijls geen uitleg !!!
Bovendien is de konstructie vrij eenvoudig en vooral ,met huis-tuin-en- keukengereedschap te vervaardigen.
Dus.....
Indien interesse, vrijdag avond haal ik de beam hier van de mast en Zaterdag morgen monteren we het hele geval op de contest lokatie.
Je laat maar iets weten.
Met vriendelijke groet
Marc

onl10659_1 <onl10659_1@...> wrote:
--- In hex-beam@yahoogroups.com, Marc Ceusters <on4bbd@y...> wrote:

hey marc ja ja schrijf maar nederlands no prob, ja ben daar eens goed gaan kijken maar toch zeer onduidelijk of mis ik iets ?? ,ja marc zoals gezegd ben een degelijk plan aan het zoeken om een hexbeam te bouwen de revieuw's die ik gelezen heb zijn formidabel dus zeer bevredigend voor mij dus als jij me zou willen helpen aan de plans en toestanden zou ik dat zeer op prijs stellen momenteel ben ik mij aan het voor bereiden voor het examen dat in april of mei zal plaatsvinden dus maar als ontspanning doe ik wel eens een antenne bouwen dit lijkt mij een zeer goed ding om te ontstressen hi hi heb mij voornamelijk met drad antennes bezig gehouwen nu wil ik wel eens iets anders bouwen en kan daar wel enige hulp bij gebruiken zoals iemand die zoiets al heeft gebouwd dus hopend op een volgende reaktie van jou thanks in advandce greetz ralph 73'ssss

> Hey Ralph,
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> onl10659_1 <onl10659_1@y...> wrote:
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> whit the construction plans for it thanks in advandce greetz
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>
>
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> [Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

1888. Re: [hex-beam] ice and swr

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-26 20:10:37 UTC
From: Andy Jay
Topic: 1881 Message: 1888

MANY THANKS FOR THE REPLIES..... SEEMS THAT THE THAW RETURNED THE ANTENNA
TO SPEC.. ! WILL KEEP AN EYE ON IT AND MAY HAVE TO GET A LINEAR !!
ANDY

-------Original Message-------

From: hex-beam@yahoogroups.com
Date: 26/01/2004 17:44:52
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] ice and swr

Andy:

I live in Northern Michigan right off the lake and normally will have a
considerable build up, no problem with SWR usually melts right off after
the
linear is cooking.

On my sailboat I have problems with salt ruining things and some industrial
pollution will do the same thing...

Paul
KB8VWV

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

1889. Re: ice and swr

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-27 14:18:48 UTC
From: w4wb
Topic: 1881 Message: 1889

Hi Andy,

As I mention before, ice can detune an antenna. Paul gives you great advise and JUSTIFICATION for buying an amplifier! hi hi I have popped ice off of antenna this way myself and also encourages most birds to go away too.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Andy Jay" <ei5jf@d...> wrote:
> MANY THANKS FOR THE REPLIES..... SEEMS THAT THE THAW RETURNED THE ANTENNA
> TO SPEC.. ! WILL KEEP AN EYE ON IT AND MAY HAVE TO GET A LINEAR !!
> ANDY
>
> -------Original Message-------
>
> From: hex-beam@yahoogroups.com
> Date: 26/01/2004 17:44:52
> To: hex-beam@yahoogroups.com
> Subject: Re: [hex-beam] ice and swr
>
> Andy:
>
> I live in Northern Michigan right off the lake and normally will have a
> considerable build up, no problem with SWR usually melts right off after
> the
> linear is cooking.
>
> On my sailboat I have problems with salt ruining things and some industrial
> pollution will do the same thing...
>
>
> Paul
> KB8VWV
>
>

1890. HexNut Partyline

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-27 14:20:45 UTC
From: w4wb
Topic: 1890 Message: 1890

Folks,

Look at the home page of this list and you will find the times and freq for the Hex-Beam net. Last weekend had a big turnout for both sessions.

73 de Barry W4WB

1891. 5 band hexbeam alimentation..

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-30 04:44:28 UTC
From: vicente
Topic: 1891 Message: 1891

I'll planned to make a 5 band hex beam.. (40/30/20/15/10)...
I don't know if I must install some kind of balun in point of alimentation...
All band finish in the same point??
Have some kind of plains for built??
Well.. I have some request..
Thanks you for your questions!!
jose castro

1894. Re: Special Hex-Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-31 16:43:56 UTC
From: w4wb
Topic: 1894 Message: 1894

--- In hex-beam@yahoogroups.com, chuck shinn <chuck.shinn@c...> wrote:
> Does anyone know if Traffie will build specials?Like I woould want
a 30
> meter on up model...Chas
>
Chas,

Traffie will do so, but not what you want I fear. He is making me a 40 m version now and I asked if it could also have 30 m. He has tried to do this in the past, but the 30 m part degraded the 40 m performance ... so no 30 m for now because I want top 40 m performance. He has also looked into making a 30-20-etc. HB, but that too had degradation problems. Yes, it works, but not up to the standards he has set and I, for one, agree with as what I want too. Nevertheless, give Mike a call.

73,
Barry W4WB

1895. Re: [hex-beam] Re: Special Hex-Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-01-31 16:49:37 UTC
From: chuck shinn
Topic: 1894 Message: 1895

Thanks so much Barry. Appreciate the feedback. de W7MAP Chas
Dallas, TX

w4wb wrote:

>--- In hex-beam@yahoogroups.com, chuck shinn <chuck.shinn@c...> wrote:
>
>
>>Does anyone know if Traffie will build specials?Like I woould want
>>
>>
>a 30
>
>
>>meter on up model...Chas
>>
>>
>>
>Chas,
>
>Traffie will do so, but not what you want I fear. He is making me a
>40 m version now and I asked if it could also have 30 m. He has
>tried to do this in the past, but the 30 m part degraded the 40 m
>performance ... so no 30 m for now because I want top 40 m
>performance. He has also looked into making a 30-20-etc. HB, but
>that too had degradation problems. Yes, it works, but not up to the
>standards he has set and I, for one, agree with as what I want too.
>Nevertheless, give Mike a call.
>
>73,
>Barry W4WB
>
>
>
>
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[Non-text portions of this message have been removed]

1896. HexNut Partyline versus 17 meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-01 23:03:41 UTC
From: w6hb
Topic: 1896 Message: 1896

Hi Folks,

We had in individual break in / check in to today's Partyline who voiced a concern that we were violating the "rule" of "no nets" on the WARC bands. As a users' group, 17 was originally selected to minimize interference to and from contests and operating events. The thought was that it would provide the best compromise frequency-wise for the most folks given the current point in the solar cycle. As a users' group it was thought that it would be no different than a ragchew with many participants and open to anyone. Last week we QSYed for a QRP net on 18157.5. The meeting frequency was chosen subject to QSYing if occupied. The recommendations of all are requested. What are you opinions and suggestions? Should we seek a non-WARC band or is this a non-issue?

73

Doug - W6HB

1897. HFpack 18157.5kHz and Hex Beam Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-01 23:39:44 UTC
From: KQ6XA
Topic: 1897 Message: 1897

There have been recent reports of QRM between the new Hex Beam net on 18156 kHz and the HFpack calling frequency 18157.5 kHz. HFpack operators often run battery power and portable antennas, so it is easy to miss them in the noise. But they are there talking to each other nonetheless.

May I respectfully suggest that we try to coordinate, and I can offere a few slightly different frequencies in the following list that might work out better, with less QRM, for the Hex Beam net:

18152.5 (Clearest)
18155.0 (Shared with Live-Wire group)
18162.5 (Clear)

Background on HFpack and 18157.5kHz:

Founded in 2000, HFpack, The HF Portable Group has about 4000 members worldwide, and is growing rapidly. 18157.5kHz became the calling frequency in February 2001. HFpack operators monitor and give priority to portable, mobile, and low power operators. Everyone is welcome to participate (portables, mobiles, or bases). As a result of the efforts of many HFpack operators around the world, 18157.5 has become the prime worldwide calling frequency for low power and portable SSB. Hundreds of operators can be heard on it regularly each day. In mid-2001 HFpack formally established an open net, listed 18157.5kHz USB in the directories, and a crew of HFpack Net operators converts 18157.5 to net operation at certain scheduled times (listed in ARRL net directory). In the event of emergency, the HFpack Net crew is mobilized by a special email network and by announcing the net on 18157.5 in voice and CW. In 2004, HFpack established an HF remote base network called "EchoPack" on 18157.5kHz USB using Echolink. If you have Echolink, you can just click on the stations and listen to the frequency from different locations around North America. Several of the "EchoPack" stations also enable HF remote base transmitting on 18157.5 through Echolink.

73---Bonnie KQ6XA
HFpack Net Founder

1898. Re: HexNut Partyline versus 17 meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-01 23:47:50 UTC
From: KQ6XA
Topic: 1896 Message: 1898

><Doug - W6HB wrote><
> We had in individual break in / check in to today's Partyline who
> voiced a concern that we were violating the "rule" of "no nets" on
> the WARC bands. As a users' group, 17 was originally selected to
> minimize interference to and from contests and operating events.

Hi Doug,

There is no rule about 17m being free of nets. In fact, there are several 17m nets listed in the ARRL Net Directory. Traditionally, nets tend to gravitate to other bands instead of 17m due to the propagation. 17m propagation can be good or very bad, depending upon a net's objective. When the band is open, there is normally a skip zone of about 750miles... so it is often difficult for regional QSOs. This increases the difficulty of maintaining some sense of order in a net. But for casual roundtables, like the Hex Net, 17m makes a great band.

Bonnie KQ6XA

1899. "Open" 17m Freqs

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-01 23:57:17 UTC
From: KQ6XA
Topic: 1899 Message: 1899

When starting up a net, it is always difficult to find just the right frequency spot in the band. Several years ago, when HFpack started up, we used spectrum analysis to determine the "holes" in the 17m band.

Here is a list of currently the most dependably clear 17m frequencies that are not activated by a regular group yet:

18142.5
18147.5
18152.5
18162.5

73---Bonnie KQ6XA

1900. Re: HexNut Partyline versus 17 meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-02 02:00:54 UTC
From: w4wb
Topic: 1896 Message: 1900

Hi Doug and All,

No, 17 m isn't required to be NET free. Bonnie has made a few good points, but I note that HFPack is highly informal and 18.1575 is a self-proclaimed calling frequency with no special privileges to have clear sailing 24/7. The FCC rule of frequency use applies.

That said, we can easily move our informal meetings, that occupies maybe a total of two hours a week at most, down 1 KHz to 18.155 or maybe up 18.160 or something else. Frankly, folks getting into our discussions have no real problem being heard if they are using a Hex-Beam! hi hi

If you have any thoughts on moving the frequency, pse send them to Doug and I will change the home page on the web site if the decision is to change it.

73 de Barry W4WB
Moderator

1901. Hex Beam frequency

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-02 05:37:09 UTC
From: Meiselman
Topic: 1901 Message: 1901

Hello to all:

Well, the mystery occurred again today. At about 10 minutes prior to the start of the net, I had a S8-S9 noise on 18.156. Then went away, only to return about 7-10 minutes into the net. I was not even to say 73, etc...just had to give up. Very narrow range...18.155 and 18.157 were OK.

I have no idea about the cause (have turned on and off all possible sources in the house). Will keep checking, but a slight shift might allow me to take part in the HB festivities.

[Of course, if you don't want "words of wisdom" from Altadena, CA....keep the 18.156...)

73 and all that CB talk!

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

1902. HexNut Partyline

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-02 06:40:45 UTC
From: w6hb
Topic: 1890 Message: 1902

Hi Folks,

A search on the ARRL Web site finds several wide area "nets" registered on 17 meters. HFPack is found on 18157.5, OMISS uses 18165, the World Scout common is on 18140, and there are SSTV nets on 18160 and 18162.5. Given that we are really a users' group and function in a coordinated ragchew format primarily discussing technical subjects, I would think that few would begrudge our use of a frequency for 1 to 2 hours a day, 2 days a week. It is agreed upon that we do not claim or homestead a single frequency. We merely designate a frequency and select pluses and minuses to accomodate other users.

In an effort to accomodate and coordinate with other nets / roundtables / or whatever, we might want to QSY down to 18152.5. This might clear up some users' QRN /QRM problems as well. If a majority would like to move down to 20 meters and compete with the density and contesting, we can do that also. Please provide your feedback not later than Wednesday, February 4th, so all can be made aware of the decision.

73 - Doug - W6HB

1903. Re: [hex-beam] HexNut Partyline

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-02 11:39:04 UTC
From: Barry Baker
Topic: 1890 Message: 1903

In the interest of all concerned, I think 18.152.5 sounds fine. If it doesn't work, we'll try something different. I am sure we were crowding the HF Pack guys. Additionally, the move may solve Herb's Heterodyne issue.

On the 20m issue, I am located in the Mid-West, and the 20m band would make Texas and Georgia easier for me to work. I am only one single voice, and will be plenty happy to keep playing on 17m.

73
Barry in Missouri
KØQV
----- Original Message -----
From: w6hb
To: hex-beam@yahoogroups.com
Sent: Monday, February 02, 2004 12:40 AM
Subject: [hex-beam] HexNut Partyline

Hi Folks,

A search on the ARRL Web site finds several wide area "nets" registered on 17 meters. HFPack is found on 18157.5, OMISS uses 18165, the World Scout common is on 18140, and there are SSTV nets on 18160 and 18162.5. Given that we are really a users' group and function in a coordinated ragchew format primarily discussing technical subjects, I would think that few would begrudge our use of a frequency for 1 to 2 hours a day, 2 days a week. It is agreed upon that we do not claim or homestead a single frequency. We merely designate a frequency and select pluses and minuses to accomodate other users.

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73 - Doug - W6HB

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[Non-text portions of this message have been removed]

1904. 17 Meter "Party Line"

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-02 13:28:51 UTC
From: schlott_98
Topic: 1904 Message: 1904

Hi Doug,

Enjoyed the group yesterday. I heard everyone yesterday except for Georgia which is unusual for me as I usually have a pipeline there. My personal feelings about the frequency are that life is short and I don't see a problem with moving to a different frequency on 17 meters. I found no noise at this end yesterday but on the Saturday group I did experience a very narrow "roaring" noise and in addition I heard a hetrodyne that persisted for hours. I could get rid of it though using the auto notch on the pro.

I might suggest that we do have an alternate frequency to use on 20 meters in the event that the propagation on 17 is poor. This would be a last minute change though and might require someone to monitor 17 meters and direct people to the new frequency on 20?? I have my 706 home for the Winter and could monitor and send folks to the 20 meter frequency.

73, Burke K1BJS

1905. 17 meter Party Line

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-03 04:05:55 UTC
From: lengail2
Topic: 1905 Message: 1905

What day and time do folks meet?
I don't have a HexBeam yet, but soon.

73, Len K6LRF

1906. Antenna Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-03 04:20:04 UTC
From: lengail2
Topic: 1906 Message: 1906

Does anyone know about maximum wind load on a Radio Shack 40' mast under the following conditions:

The base of the mast will rest on a deck 10' above ground, and it will extend 17' to the edge of my roof and attached at that point.

That will place the hexbeam about 27' above the ground and only two mast sections above the deck.

Will the mast support the hexbeam and small rotor without guy wires? The mast will only extend about 3' above the roof.

Another concern is that the eve of the roof extends 2' from the side of the house, not allowing the mast to be placed against the house. Do metal fixtures exist for holding the mast about 2' from the house?

The company owned Radio Shacks only sell an 18' mast in this area because of local laws, but independent sore owners do have the taller versions.

73
Len
K6LRF

1907. Re: [hex-beam] 17 meter Party Line

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-03 05:13:00 UTC
From: DUKE - NA1A
Topic: 1905 Message: 1907

Sunday at 2000 UTC on or around 18.156 Mhz.
----- Original Message -----
From: lengail2
To: hex-beam@yahoogroups.com
Sent: Monday, February 02, 2004 8:05 PM
Subject: [hex-beam] 17 meter Party Line

What day and time do folks meet?
I don't have a HexBeam yet, but soon.

73, Len K6LRF

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[Non-text portions of this message have been removed]

1908. Re: [hex-beam] Antenna Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-03 13:48:22 UTC
From: htankin@comcast.net
Topic: 1906 Message: 1908

My HX5Bi is mounted on the Traffie 30 foot HDX mast. The rotator is mounted 2 feet above ground on conduit. The rotator, therefore, turns the mast and antenna. The mast is guyed at 2 levels, 3 points each. It's been up for nearly 3 years and works great.

I would advise against your proposed arrangement unless the mast is (a) mounted (not sitting on) on the deck, and (b) attached to the house (or guys are used). Further, you may find the combination of antenna and rotator at the top of the mast makes erecting and MAINTAINING the antenna unwieldy and difficult. You should drop the top sections of the mast periodically to check the antenna and "service" it (I do this twice a year with my HX5Bi.) That may be cumbersome with the rotator on top (especially if anything other than a TV-type rotator).

Harry WE1X
> Does anyone know about maximum wind load on a Radio Shack 40' mast
> under the following conditions:
>
> The base of the mast will rest on a deck 10' above ground, and it
> will extend 17' to the edge of my roof and attached at that point.
>
> That will place the hexbeam about 27' above the ground and only two
> mast sections above the deck.
>
> Will the mast support the hexbeam and small rotor without guy
> wires? The mast will only extend about 3' above the roof.
>
> Another concern is that the eve of the roof extends 2' from the side
> of the house, not allowing the mast to be placed against the house.
> Do metal fixtures exist for holding the mast about 2' from the house?
>
> The company owned Radio Shacks only sell an 18' mast in this area
> because of local laws, but independent sore owners do have the
> taller versions.
>
> 73
> Len
> K6LRF
>
>
>
>
> Yahoo! Groups Links
>
> To visit your group on the web, go to:
> http://groups.yahoo.com/group/hex-beam/
>

> To unsubscribe from this group, send an email to:

> hex-beam-unsubscribe@yahoogroups.com
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>
>

1909. HexNut Partyline Users Group Roundtables move to 18152.5 MHz

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-04 06:00:30 UTC
From: w6hb
Topic: 1909 Message: 1909

Hi Folks,

Effective February 7th, the HexNut Partylines will QSY to 18152.5 MHz (+ / -). This move has been coordinated with the HFPack group who uses 18157.5 MHz and should give both groups adequate breathing room. Naturally if 18152.5 MHz is in use we will locate another clear frequency. After reviewing the ARRL's 17 meter net postings and assessing prudent usage of 17 meters, the concensus reached is that our operations utilize no more spectrum than any single QSO. As such, since we do not work split those consulted see no logical reason why we should not continue to regularly meet on 17 meters. We may occasionally QSY to other bands in pursuit of the illusive HXCC award. Suggested other frequencies commons are 14256, 21356, 24956 and 28356 MHz. As always the opinions and suggestions of others are entertained.

73 - Doug - W6HB - Partyline Moderator

1910. For Sale: HX5Bi Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-06 02:31:31 UTC
From: aj2w
Topic: 1910 Message: 1910

For Sale: HX5Bi 5 band Hexbeam. Used for only one year and in perfect condition. Upgraded to very large Force 12 Multiband Yagi with 40 meters and do not need.

Asking $600 Plus shipping (UPS Ground Shipping cost is small).

If interested contact me via email at: LarryD@...

73, Larry AJ2W

1911. Re: [hex-beam] For Sale: HX5Bi Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-07 01:54:59 UTC
From: Bill Tarkington
Topic: 1910 Message: 1911

Am considering the purchase of this antenna, it is the 5 bander, I believe. I have just the reverse situation as you. Already have a very good performing heavy duty Cushcraft X7 tribander, but must sell as am moving to new home where just do not have the real estate now have, and touchy neighbors to boot. Can only have an antenna that does not project more than five feet above my roof peak. Guess this to be about 35 feet, and am considering this antenna or perhaps the steppir 4 element yagi. Is your tuned to your custom specifications upon purchase, and if so, what were they for each band? Or, did you just purchase the default setup as Traffie sells it? I do mostly phone and have little interest in CW, and am under the impression, correct or not, that if I purchase new, can order each band with the phone band tuned to the center freq I might choose. Any comment on any of this and your evauation of this antenna would be appreciated. Thanks, Bill/k3yc.
----- Original Message -----
From: aj2w
To: hex-beam@yahoogroups.com
Sent: Thursday, February 05, 2004 8:31 PM
Subject: [hex-beam] For Sale: HX5Bi Hexbeam

For Sale: HX5Bi 5 band Hexbeam. Used for only one year and in
perfect condition. Upgraded to very large Force 12 Multiband
Yagi with 40 meters and do not need.

Asking $600 Plus shipping (UPS Ground Shipping cost is small).

If interested contact me via email at: LarryD@...

73, Larry AJ2W

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http://groups.yahoo.com/group/hex-beam/

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[Non-text portions of this message have been removed]

1912. Re: [hex-beam] HexNut Partyline Users Group Roundtables move to 18152.5 MHz

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-07 18:30:33 UTC
From: Marc Ceusters
Topic: 1909 Message: 1912

hey Folks,
Where are you guy's, listening now the second week, can not hear you????
Regards
ON4bbd

w6hb <w6hb@...> wrote:
Hi Folks,

Effective February 7th, the HexNut Partylines will QSY to 18152.5 MHz (+ / -). This move has been coordinated with the HFPack group who uses 18157.5 MHz and should give both groups adequate breathing room. Naturally if 18152.5 MHz is in use we will locate another clear frequency. After reviewing the ARRL's 17 meter net postings and assessing prudent usage of 17 meters, the concensus reached is that our operations utilize no more spectrum than any single QSO. As such, since we do not work split those consulted see no logical reason why we should not continue to regularly meet on 17 meters. We may occasionally QSY to other bands in pursuit of the illusive HXCC award. Suggested other frequencies commons are 14256, 21356, 24956 and 28356 MHz. As always the opinions and suggestions of others are entertained.

73 - Doug - W6HB - Partyline Moderator

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[Non-text portions of this message have been removed]

1913. Re: [hex-beam] HexNut Partyline Users Group Roundtables move to 18152.5 MHz

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-07 18:30:25 UTC
From: Marc Ceusters
Topic: 1909 Message: 1913

hey Folks,
Where are you guy's, listening now the second week, can not hear you????
Regards
ON4bbd

w6hb <w6hb@...> wrote:
Hi Folks,

Effective February 7th, the HexNut Partylines will QSY to 18152.5 MHz (+ / -). This move has been coordinated with the HFPack group who uses 18157.5 MHz and should give both groups adequate breathing room. Naturally if 18152.5 MHz is in use we will locate another clear frequency. After reviewing the ARRL's 17 meter net postings and assessing prudent usage of 17 meters, the concensus reached is that our operations utilize no more spectrum than any single QSO. As such, since we do not work split those consulted see no logical reason why we should not continue to regularly meet on 17 meters. We may occasionally QSY to other bands in pursuit of the illusive HXCC award. Suggested other frequencies commons are 14256, 21356, 24956 and 28356 MHz. As always the opinions and suggestions of others are entertained.

73 - Doug - W6HB - Partyline Moderator

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[Non-text portions of this message have been removed]

1914. Re: HexNut Partyline Users Group Roundtables move to 18152.5 MHz

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-08 16:00:35 UTC
From: w4wb
Topic: 1909 Message: 1914

--- In hex-beam@yahoogroups.com, Marc Ceusters <on4bbd@y...> wrote:
> hey Folks,
> Where are you guy's, listening now the second week, can not hear
you????
> Regards
> ON4bbd
>
HexNut Partyline

All amateurs with an interest in the Hexbeam style of antennas are
welcomed.
This group meets twice weekly on 18.1525 MHz (+/- QRM)
The Asia-Pacific session meets Saturdays at 2300 UTC.
The USA-Europe session meets Sundays at 2000 UTC.
This is a moderated session.

Perhaps you were on the wrong day. The USA-Europe session is on
Sundays. Hope to get on today myself.
73,
Barry W4WB

1915. Upside-down?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-13 17:08:07 UTC
From: Johnny
Topic: 1915 Message: 1915

Howdy to all,

I was just wondering how a hex-bead would work if you mounted it upside- down. Like an umbrella. A friend has a height limit. He only has about 18" above where he can mount a rotor. Including the rotor height. But if the hex will work as well upside-down he will have enough clearence to mount it and rotate it.

Will be greatful for any and all input. And would like to say thanks in advance.
Johnny

73
KD7TMY

1916. Spelling

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-13 17:09:28 UTC
From: Johnny
Topic: 1916 Message: 1916

Please excuse the spelling. In a hurry to get this out. Johnny

1918. Confused: Hexbeam monoband or multi?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-15 22:47:48 UTC
From: Mike McCoy
Topic: 1918 Message: 1918

Is the 5-band HX-5Bi basically an array of monoband antennas? i.e. to change bands would you have to lower the antenna and do something?

1919. Re: Confused: Hexbeam monoband or multi?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-15 23:09:55 UTC
From: w4wb
Topic: 1918 Message: 1919

--- In hex-beam@yahoogroups.com, "Mike McCoy" <k5pu@a...> wrote:
> Is the 5-band HX-5Bi basically an array of monoband antennas? i.e.
to
> change bands would you have to lower the antenna and do something?

Nike,

The HX-5Bi comprises 5 wire beams stacked using the same support
arms. A single feed line is used, so you can change from one band to
another as fast as your radio will do it. Makes band hopping just
simply easy as can be!

73,
Barry W4WB

1920. Re: [hex-beam] Confused: Hexbeam monoband or multi?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-15 23:09:46 UTC
From: htankin@comcast.net
Topic: 1918 Message: 1920

No. True multi band antenna. The HX5Bi should NOT be confused with the HexPac which is a portable Hexbeam antenna with optional bandpacs (elements). It is a monobander, and to change bands you replace the bandpac for operating band you want.

Harry WE1X...A proud HX5Bi owner
> Is the 5-band HX-5Bi basically an array of monoband antennas? i.e. to
> change bands would you have to lower the antenna and do something?
>
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>
> Yahoo! Groups Links
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1921. WPX TTY - hexbeam experience

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-17 11:01:26 UTC
From: iz5diy
Topic: 1921 Message: 1921

Hi guys,

last week-end I run the WPX TTY Contest.
I use my homebrew 3 band Hex antenna (for 10 - 15 -20).
It was my first time with an hard duty with hexbeam and I had good feeling. Other part of my station are IC775, 200W and a windom antenna.
I can compare signal with windom antenna and specially for qso from far zone I note a really better signal on hexbeam.
Antenna was at 9 mt of height and it is still a beta version (I am planning a tower and a fixed installation).

73, Silvio IZ5DIY

1922. new multiband version eznec files

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-17 15:17:42 UTC
From: dl7io
Topic: 1922 Message: 1922

Hello,
while laying in the hospital with serious broken bones and cutted tendons after skiing I used the time on the notebook simulating new multiband versions. As we already have a good working design for the highbands my focus was on a lowband antenna starting from 40m to see how many bands are possible to get together with a usable gain and swr. For those of you who have eznec3.0 I can offer models for versions 30/40m, 20/30/40m, 17/20/30/40m (my favorite) and 12/17/20/30/40m. See in the file section under DL7IO. I also had an idea for a new and totally different base unit which is a fold together unit and better suiting for DX-pedition-like operations as what we use today (no U-bolts needed etc.). Will go to the mechanical garage in my village and ask the guy to build me a prototype. I already ordered spreaders for the 40m+ version.
The problem is that I only have my right hand/arm for working because my left side (shoulder) is still unavailable but full of titan screws and wires.
regards Holger
PS. any feedback regarding the models is most welcome
www.dl7io.de

1923. Re: [hex-beam] new multiband version eznec files

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-17 18:54:29 UTC
From: Alex, VE3NEA
Topic: 1922 Message: 1923

Hi Holger,

You are a true enthusiast of Hex-Beam if you continue your work even in the hospital! I wish you a quick an painless recovery.

I would like to try your models, but, since I am a casual user of antenna modeling software, I use the freeware 4nec2 program instead of EzNEC. Is there a tool for converting between the EzNEC and 4nec2 file formats?

It would be great if you could post some figures illustrating the effect of the 40 m elements on the antenna performance on other bands. Since you already ordered the spreaders, the figures must be encouraging ;-)

I am wondering if EzNEC can model elements made of coax. According to N0KHQ (http://www.hamuniverse.com/17mcoaxmox.html), an antenna with coax elements is up to 40% smaller in size, while its performance is almost the same as that of a full size antenna. This could make a 40 m HexBeam much more affordable!

73 Alex VE3NEA

> Hello,
> while laying in the hospital with serious broken bones and cutted
> tendons after skiing I used the time on the notebook simulating new
> multiband versions. As we already have a good working design for the
> highbands my focus was on a lowband antenna starting from 40m to see
> how many bands are possible to get together with a usable gain and
> swr. For those of you who have eznec3.0 I can offer models for
> versions 30/40m, 20/30/40m, 17/20/30/40m (my favorite) and
> 12/17/20/30/40m. See in the file section under DL7IO. I also had an
> idea for a new and totally different base unit which is a fold
> together unit and better suiting for DX-pedition-like operations as
> what we use today (no U-bolts needed etc.). Will go to the mechanical
> garage in my village and ask the guy to build me a prototype. I
> already ordered spreaders for the 40m+ version.
> The problem is that I only have my right hand/arm for working because
> my left side (shoulder) is still unavailable but full of titan screws
> and wires.
> regards Holger
> PS. any feedback regarding the models is most welcome
> www.dl7io.de

1924. Re: new multiband version eznec files

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-18 12:01:24 UTC
From: dl7io
Topic: 1922 Message: 1924

Alex,
sorry but I don't know how to convert the files for your software.
I have added some pdf-files with pics/data regarding gain/swr etc.
per band for the different versions.
See --> files -->DL7IO
regards Holger

1925. Re: new multiband version eznec files

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-19 00:35:07 UTC
From: w4wb
Topic: 1922 Message: 1925

Hope you recover soon Holger. The designs are interesting. I intend to look at them carefully soon. My 40-m HB should be heading to me in the near future. Mike said he has made 30-m and 40-m dual HB, but that it required a compromise. Worked okay I gathered but not as well as one for each band.
73,
Barry W4WB

1926. Re: [hex-beam] Broken bones and cut tendons - ouch!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-20 15:50:00 UTC
From: psturtevan@aol.com
Topic: 1926 Message: 1926

Ouch, hope you have a speedy and full recovery!

Paul KA1CUS

In a message dated 02/18/2004 7:33:05 AM Eastern Standard Time,
hex-beam@yahoogroups.com writes:
serious broken bones and cutted
tendons

[Non-text portions of this message have been removed]

1927. net time 20:00Z

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-22 20:12:19 UTC
From: dl7io
Topic: 1927 Message: 1927

Hello,
thanks for the good wishes I got.
Have been checking 18152,5 tonight and need to tell you that for
middle europe on this band the time is to late. It is still 3 hours
after sunset and 17m is dead here. Even on 20m signals are very weak
this time. Around 17/18:00 would be better.
regards Holger

1928. Re: new multiband version eznec files

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-23 16:33:39 UTC
From: PA2JJB
Topic: 1922 Message: 1928

Hi Holger,
Hope your bones etc, will recover soon and you are able
again to work with your new HEX-beam design. This weekend I removed
all my dipoles, VHF/UHF and 11M-antennas, to make place for the HEX-
beam.
Hope this weekend the weather will be good and the HEX-beam will go
where it belongs....on the mast at my dormerwindow (that's where my
shack is located). I decided not to place it on my chimney, because
at this place I have much better access to align and repair it.

Best 73's and hope to work you all soon with my HEX-beam.
Jan de PA2JJB

PS hope we can make a earlyer HEX-beam net so all the guys from
Europe can also parcitiate in the net !!!!

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> Hello,
> while laying in the hospital with serious broken bones and cutted
> tendons after skiing I used the time on the notebook simulating new
> multiband versions. As we already have a good working design for
the
> highbands my focus was on a lowband antenna starting from 40m to
see
> how many bands are possible to get together with a usable gain and
> swr. For those of you who have eznec3.0 I can offer models for
> versions 30/40m, 20/30/40m, 17/20/30/40m (my favorite) and
> 12/17/20/30/40m. See in the file section under DL7IO. I also had an
> idea for a new and totally different base unit which is a fold
> together unit and better suiting for DX-pedition-like operations as
> what we use today (no U-bolts needed etc.). Will go to the
mechanical
> garage in my village and ask the guy to build me a prototype. I
> already ordered spreaders for the 40m+ version.
> The problem is that I only have my right hand/arm for working
because
> my left side (shoulder) is still unavailable but full of titan
screws
> and wires.
> regards Holger
> PS. any feedback regarding the models is most welcome
> www.dl7io.de

1929. Elevation angle of a HX-5Bi Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-23 19:52:11 UTC
From: George
Topic: 1929 Message: 1929

Hello to all,

I was looking for a not too big and conspicuous antenna and was thinking about constructing a vertical Delta-Loop with nested wires for 10m - 20m. Deltaloops are less sensitive for QRN and usually have flat elevation angles. However my antenna simulation with the free MMAna software showed odd results.

While I was looking for some hints on the internet, I stumbled over the hex-beam. Due to its small size, it might be a good choice for me. Since it is a two element directing antenna it even provides some gain.

Now my question: Does anybody know the elevation angles of the HX-5Bi 5-band hex-beam from Traffie? Since Traffie does not mention them, I suppose that the angles must be modest compared to other antenna types?

73, Juerg (HB9ECV)

1930. Re: [hex-beam] Elevation angle of a HX-5Bi Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-23 23:40:50 UTC
From: K7Max
Topic: 1929 Message: 1930

Hi George, there are some elevation angles in the files section of the group site. I don't remember exactly where but I downloaded several about a month ago.

I have been using a Hex Beam for about a month now and I am very pleased with its operation. I have the HX-5B and is mounted only 7 ft off the ground. I can't go any higher due to CC&R's but it seems to work good for me.

Max
----- Original Message -----
From: "George" <zx81@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, February 23, 2004 12:52 PM
Subject: [hex-beam] Elevation angle of a HX-5Bi Hex-Beam

> Hello to all,
>
> I was looking for a not too big and conspicuous antenna and was thinking
> about constructing a vertical Delta-Loop with nested wires for 10m - 20m.
> Deltaloops are less sensitive for QRN and usually have flat elevation
angles.
> However my antenna simulation with the free MMAna software showed odd
> results.
>
> While I was looking for some hints on the internet, I stumbled over the
hex-
> beam. Due to its small size, it might be a good choice for me. Since it is
a two
> element directing antenna it even provides some gain.
>
> Now my question: Does anybody know the elevation angles of the HX-5Bi 5-
> band hex-beam from Traffie? Since Traffie does not mention them, I suppose
> that the angles must be modest compared to other antenna types?
>
> 73, Juerg (HB9ECV)
>
>
>
>
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> Yahoo! Groups Links
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>
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[Non-text portions of this message have been removed]

1931. Re: Elevation angle of a HX-5Bi Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-24 18:14:42 UTC
From: Andrea & Chuck Bridges
Topic: 1929 Message: 1931

George:

Here's an email from the reflector that I saved from last summer. I haven't checked to see if the file is still available on the Web site, but if they aren't, you can probably get them directly from Dave, VK2DPD.

73, Chuck, AK6DV

Message: 1
Date: Sun, 22 Jun 2003 03:49:14 -0000
From: "David Douglass" <david.douglass@...>
Subject: Elevation Angles - Optimum Height

Hi All,

I've just uploaded a Excel File to the files section which shows elevation angle information for the 5 Band Hex-Beam at different heights (between 5 and 20M), and for all 5 bands.

There is a section in the ARRL Antenna handbook that details the optimum radiation angle from various areas in the US, to the rest of the World. Therefore in theory you can set your tower height to the optimum for a particular part of the World you prefer to work.

Sounds easy Eh?? Well if you prefer to work one location, on one band, only using 1 path (long or short) it is. However, if you want optimum height, for all bands, on all paths, to all locations you want to invest in an automatic telescopic tower!

Regards

David, VK2DPD
vk2dpd@...

1932. Vertical Hexbeam?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-25 15:18:18 UTC
From: Colin
Topic: 1932 Message: 1932

A 40m Hexbeam is a nice pipedream for most people,due to the sheer size and ideal mounting height constraints.
It occurred to me that a 40m vertical Hexbeam could be much easier to build and fit into a limited space and should perform quite well mounted low to the ground.

If you have enough space it would be fairly easy to erect a 50ft tall wooden,fibreglass,pvc? mast and use 2 sets of 4 non metallic guyes to support the mast and the element wires (no spreader arms required).

I doubt many have sufficient space for the guyes` 30 degree slope from 50ft but it may be a possibility for a field day or special event.

A couple of crossbooms may be a realistic alternative for the home qth and reduces the real estate needed for guyes.
Like a diamond quad loop the crossboom would receive support from the vertical spreader (or mast in this case).

The Hexbeam has a fairly wide azimuth beamwidth when used horizontally so i guess it would be VERY wide as a vertical antenna (which is good because you wouldn`t have to(or want to)rotate it too often.
The elevation beamwidth of vertical arrays is usually very uniform covering a lot of angles with equal strength.

The Hexbeam is a real performer when used on the flatside..maybe it has equally surprising performance when used as a vertical on the lower hf bands.

Best Regards
Colin

1933. Re: Elevation angle of a HX-5Bi Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-25 19:08:25 UTC
From: George
Topic: 1929 Message: 1933

Hi Max,

thanks for the info. By the way, nice call :-)

> Hi George, there are some elevation angles in the files section of the group
> site. I don't remember exactly where but I downloaded several about a
month
> ago.

An italian OM sent me those files.

> I have the HX-5B and is mounted only 7 ft off the
> ground. I can't go any higher due to CC&R's but it seems to work good for
> me.

That's good to hear. I can't install any antenna on a support higher than 7 ft
above the roof top for the same reason.

Apart from that, storms with up to 100 Mph can occure here, and I want to
sleep well...

73, Juerg (HB9ECV)

1934. WIND SUVIVABILITY

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-27 20:43:21 UTC
From: Andrea & Chuck Bridges
Topic: 1934 Message: 1934

We just went through a couple of days of extremely high winds -- gusts near 75 mph. A whole row of power poles went down plunging us into darkness (we live in the country, so no power also means no heat and no water). My Hex-Beam HX-5bi on top of an HDX-30 mast came through with flying colors (I'll keep my fingers crossed, touch wood, etc. for the next big blow!). Thank goodness for the strudy quality of the antenna and mast and the low wind profile of the HX-5bi.

73, Chuck, AK6DV

1935. HX-5Bi Shipping Size & Weight?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-28 16:57:46 UTC
From: Charles Penry
Topic: 1935 Message: 1935

Folks,

What is the shipping size and weight for the HX-5Bi?

I would love to use one here in Iraq but the size and weight limitations for APO mail seem to be "Parcel Post(r) not exceeding 30 lbs. in weight or 60 inches in length and girth combined" which may preclude shipping one over here. If the shipping size is too big and/or heavy would it help to break up the antenna into multiple boxes?

Thanks and 73,

Charles

YI9VHU / WA5VHU

HF Radio Project

IT/Commo Office, Baghdad, Iraq

[Non-text portions of this message have been removed]

1936. Re: [hex-beam] HX-5Bi Shipping Size & Weight?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-28 18:00:02 UTC
From: Barry Baker
Topic: 1935 Message: 1936

Have you checked out the HexPac product from Traffie Technologies?

Barry in Missouri
KØQV
----- Original Message -----
From: Charles Penry
To: hex-beam@yahoogroups.com
Sent: Saturday, February 28, 2004 10:57 AM
Subject: [hex-beam] HX-5Bi Shipping Size & Weight?

Folks,

What is the shipping size and weight for the HX-5Bi?

I would love to use one here in Iraq but the size and weight limitations
for APO mail seem to be "Parcel Post(r) not exceeding 30 lbs. in weight
or 60 inches in length and girth combined" which may preclude shipping
one over here. If the shipping size is too big and/or heavy would it
help to break up the antenna into multiple boxes?

Thanks and 73,

Charles

YI9VHU / WA5VHU

HF Radio Project

IT/Commo Office, Baghdad, Iraq

[Non-text portions of this message have been removed]

Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

1937. HX-5B on 30 m

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-28 22:54:20 UTC
From: w4wb
Topic: 1937 Message: 1937

I was playing around yesterday and worked an EA8 on 30 m who had a big pile up going. The HX-5B clearly was showing 2 to 2-1/2 S-units F/B and the F/S was a bit more. Who knows what the gain might be, but I did get through the pile.

Was using a FT-1000MP and VL-1000 (in stdby mode) followed by a AT-1000 autotuner. The AT-1000 makes short work of tuning the HX-5B on 30, 40, and 80 m. Normally, the AT-1000 isn't in the circuit.

73,
Barry W4WB

1938. Hex Beam on 40+

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-29 00:20:57 UTC
From: Meiselman
Topic: 1938 Message: 1938

Dear All:

I am prompted to send this email by the very recent one from Barry (W4WB).

Since I love my HX-5B (and it loves me...most of the time), I wonder what damage, if any, could occur with operation on 40 or 80 or even 160? I would not run an amp and so probably only 80-90 watts from my 756ProII.

I have a 40-80 dipole but it is really not too useful. The HX-5B is much, much better on 160 for receiving, but its SWR is about 5+ (tested with low power). Since 40, 80 and sometimes 160 are active during my waking hours, would be fun to use the HX-5B rather than the dipole.

Thanks for any and all comments.

Herb K6HJM

Herbert J. Meiselman, ScD
Professor and Vice-Chair
Dept. Physiology and Biophysics
Keck School of Medicine
1333 San Pablo Street
Los Angeles, CA 90033
323-442-1268
323-442-2283 (FAX)
meiselma@...

1939. Re: Hex Beam on 40+

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-29 02:40:24 UTC
From: w4wb
Topic: 1938 Message: 1939

Hi Herb,

Nice to "hear" you agn. Not much is really known about damage, but I am totally confident that you will not hurt your beloved HB by using it on the lower bands. You will need a good tuner. Don't worry if the SWR is high since the feed line loss is very low at the lower frequencies. Mine didn't tune on 160 m in the past with the AT-11MP tuner, but I haven't tried it with the AT-1000. Might just do that sometime.

FWIW, when I ask Mike abt pwr limits on 40 m, he suggested it not exceed 200 W for no good reason other than that was his thought. I agree, but just run 100 W on these other bands.

Let us know how you make out and try to make a comparision to your dipoles.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, Meiselman <meiselma@h...> wrote:
> Dear All:
>
> I am prompted to send this email by the very recent one from Barry
(W4WB).
>
> Since I love my HX-5B (and it loves me...most of the time), I
wonder what
> damage, if any, could occur with operation on 40 or 80 or even
160? I
> would not run an amp and so probably only 80-90 watts from my
756ProII.
>
> I have a 40-80 dipole but it is really not too useful. The HX-5B
is much,
> much better on 160 for receiving, but its SWR is about 5+ (tested
with low
> power). Since 40, 80 and sometimes 160 are active during my waking
hours,
> would be fun to use the HX-5B rather than the dipole.
>
> Thanks for any and all comments.
>
> Herb K6HJM
>
>

>
> Herbert J. Meiselman, ScD
> Professor and Vice-Chair
> Dept. Physiology and Biophysics
> Keck School of Medicine
> 1333 San Pablo Street
> Los Angeles, CA 90033
> 323-442-1268
> 323-442-2283 (FAX)
> meiselma@u...

1940. new owner needs advice on roof mount

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-29 16:27:48 UTC
From: Ken Hopper
Topic: 1940 Message: 1940

Dear HexBeam-ers,
I am the proud new owner of HX-5Bi #287
that was formerly owned by Bill K3WA.
It is in perfect condx and went together
just fine. Picture here:
http://www.n9vv.com/Images/HexBeam-2-28-2004.jpg

I want to put it on the roof of my garage and
don't know how. I know about rotor mounting plates
inside towers, but is there any sort of rotor
mounting plate for a rooftop installation? I
don't even want a mast - just roof + rotor + beam
to keep the profile very low for now. I will figure
out a tower/mast in the future.

Anyone know of a commercial roof top rotor mounting
solution?

TU de ken n9vv

1941. ferrite beads or line isolator?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-02-29 21:06:23 UTC
From: Ken Hopper
Topic: 1941 Message: 1941

Howdy, as the new guy, I am somewhat
confused about the need for the ferrite
beads. Has anyone used a 5ft piece of coax
from the feed point to a simple 1:1 line
isolator (like RadioWorks T-400?) or UnUn?
instead of the ferrite beads?
TU de ken n9vv

1942. Re: new owner needs advice on roof mount

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-01 00:23:19 UTC
From: w4wb
Topic: 1940 Message: 1942

Hi Ken,

See http://www.glenmartin.com/industrial/pg17.htm.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Ken Hopper" <n9vv@w...> wrote:
> Dear HexBeam-ers,
> I am the proud new owner of HX-5Bi #287
> that was formerly owned by Bill K3WA.
> It is in perfect condx and went together
> just fine. Picture here:
> http://www.n9vv.com/Images/HexBeam-2-28-2004.jpg
>
> I want to put it on the roof of my garage and
> don't know how. I know about rotor mounting plates
> inside towers, but is there any sort of rotor
> mounting plate for a rooftop installation? I
> don't even want a mast - just roof + rotor + beam
> to keep the profile very low for now. I will figure
> out a tower/mast in the future.
>
> Anyone know of a commercial roof top rotor mounting
> solution?
>
> TU de ken n9vv

1943. Re: ferrite beads or line isolator?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-01 00:28:16 UTC
From: w4wb
Topic: 1941 Message: 1943

--- In hex-beam@yahoogroups.com, "Ken Hopper" <n9vv@w...> wrote:
> Howdy, as the new guy, I am somewhat
> confused about the need for the ferrite
> beads. Has anyone used a 5ft piece of coax
> from the feed point to a simple 1:1 line
> isolator (like RadioWorks T-400?) or UnUn?
> instead of the ferrite beads?
> TU de ken n9vv

Ken,

The idea is to shunt the RF on the outside of the coax shield. I have not used these, but the use of the Type 77 ferrite beads from Amidon has been shown time and again to do the job. You need 5-6 of them at $2 each. (Use 8 is you like too.) Hold in place with heat shrink and tie wraps. Overall length is maybe 6". Be sure to located just below the base of the Hex-Beam.

Another choice is the DX Enginerring balun, but it costs 3 times as much (or lots more depending upon version) than the beads.

73,
Barry W4WB

1944. Vertical mounted hex-beam.

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-01 05:02:30 UTC
From: Johnny
Topic: 1944 Message: 1944

Hey Colin,

I'm new to this area, but it seems to me that going vertical would be defeating the idea behind the beam, hex or not. I may be out in left field, but the reason the hex-beam works so well in that the signal is reflected in a horizontal plane. If it was vertical would'nt the signal be sent straight up or down, depanding on the orentation of the reflector? Seems like it might be good for moon bouncing, but that seems like all.

I might be wrong, but that is what the things I'm learning are telling me. If any one out there has more info, please let me know.

Thanks.
Johnny

1945. More thought.

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-01 05:08:04 UTC
From: Johnny
Topic: 1945 Message: 1945

After a bit more thought and rotating the beam 90 degrees I see what your tryintg to say. Never mind my jumping to the wrong end of your idea. Johnny

1946. Re: ferrite beads or line isolator?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-02 00:18:54 UTC
From: Andrea & Chuck Bridges
Topic: 1941 Message: 1946

Ken:

I use a coax choke -- about 8 feet of coax in a coil of 6-7 turns. The ARRL Antenna book suggests that this choke should be effective 14 - 30 MHz. I used wire ties to form the coil and have it taped to one of crossarms right at the base plate. It seems to work pretty well, and all you need is some "slack" in your feed line.

73, Chuck, AK6DV

1947. Re: ferrite beads or line isolator?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-02 02:43:03 UTC
From: w4wb
Topic: 1941 Message: 1947

Hi Chuck,

In the files section of this group, you can find an excellent technical note by K1TTT. He made some very good experimental measurements to provide guidance. See the folder Publications and the file airbalun.html.

My experience with the coax balun vs. the ferrite beads (#77) is that the beads do a much better job. Yes, the cost is maybe $10-12 for the beadss compared to the $5-6 for the extra coax, but that seems incidental after you have spent a lot for the antenna and coax. :-)

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Andrea & Chuck Bridges" <AK6DV@a...> wrote:
> Ken:
>
> I use a coax choke -- about 8 feet of coax in a coil of 6-7 turns. The ARRL
> Antenna book suggests that this choke should be effective 14 - 30 MHz. I used
> wire ties to form the coil and have it taped to one of crossarms right at the
> base plate. It seems to work pretty well, and all you need is some "slack" in
> your feed line.
>
> 73, Chuck, AK6DV

1948. Re: ferrite beads or line isolator?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-02 16:39:44 UTC
From: Andrea & Chuck Bridges
Topic: 1941 Message: 1948

Barry:

Thanks for pointing out W1TTT's article!

73, Chuck, AK6DV

1949. Re: [hex-beam] Re: ferrite beads or line isolator?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-03 16:52:20 UTC
From: Harvey Mandell
Topic: 1941 Message: 1949

The Wire Man sells a kit which is similar to the W2DU ferrite balun. The kit consists of a large quanity of ferrite beads that are placed over a length of low loss coax also provided in the kit. You provide the type of enclosure you want. I used a 12" length of 1.25" PCV pipe with end caps.

73, Harvey
--- Andrea & Chuck Bridges <AK6DV@...> wrote:
> Ken:
>
> I use a coax choke -- about 8 feet of coax in a coil
> of 6-7 turns. The ARRL
> Antenna book suggests that this choke should be
> effective 14 - 30 MHz. I used
> wire ties to form the coil and have it taped to one
> of crossarms right at the
> base plate. It seems to work pretty well, and all
> you need is some "slack" in
> your feed line.
>
> 73, Chuck, AK6DV
>
>
>
>
>
> Yahoo! Groups Links
>
>
> hex-beam-unsubscribe@yahoogroups.com
>
>
>

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1950. 2 new stealth photos posted by NF1A

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-05 08:23:33 UTC
From: aep003
Topic: 1950 Message: 1950

Hi All,

Check out the 2 photos of my "stealth" Hexbeam installation completed Jan 3 2004. The spreaders are invisible against the trees by using Krylon camoflauge paint !!! I wrapped the mast in camoflauge duct tape from Wal-Mart. (Copper wires turn brown and become invisible by themselves - - do not paint according to Mike Traffie). Tower is a Force 12 LPT 1242 w/ optional green power coat cranked to about 36 feet, with custom stub-mast for Radio Shack TV rotator. Note this set-up replaces the ladder - mast I wrote about back in October 2002.

73,

Art NF1A

1951. Re: new multiband version eznec files

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-10 15:49:27 UTC
From: tonyestep
Topic: 1922 Message: 1951

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:

> PS. any feedback regarding the models is most welcome

Holger, the EZNec files and spreadsheets are wonderful! I was just in the middle of designing a temporary antenna. Your excellent information saved me from frustration and answered many questions. I was having trouble getting my own EZNec model to give the right combination of radiation pattern and SWR.

I hope you are healing up well. Thanks so much for your generous contribution to the rest of us, and 73.

Tony, K0LTB

1952. Hex-Pac on Airlines

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-11 04:09:35 UTC
From: DrRodney
Topic: 1952 Message: 1952

Hello All,
I'm NA9N and am in southern Wisconsin. I'm curious about the use of the Hex-Pac on portable operations/dxpeditions.
To celebrate our 15th anniversary, my xyl has agreed to our visiting Rarotonga in the South Cook Islands during the last week of December. Cook Islands Telecom has reserved the callsign ZK1ROD for me. I've been searching for a good portable antenna to take with me and am looking at the Hex-Pac. This is a dream come true, as I've never operated as DX before.
Here at my home QTH, I currently use only a vertical and a G5RV. I'd like to use something with a bit more directivity here but which will allow me to easily take it down for portable operating around the state and for use on Rarotonga.
I was wondering if anyone could tell me how the Hex-Pac has worked out for portable operations/dxpeditions. I'm especially interested in how folks have been able to get it on planes as checked baggage. The dimensions, with the mast, seem to be greater than the baggage limits on a number of airlines.
I thank you in advance for any thoughts or advice you might have about the use of a Hex-Pac.

With my best 73,

Rod Marty, NA9N

1953. Small Antenna (OFF-TOPIC)

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-12 16:56:12 UTC
From: Paulo Marcondes
Topic: 1953 Message: 1953

I was browsing my old bookmarks and found this:
http://www.grupojcs.com.br/diex/index.htm
sorry, it's only written in portuguese...

I wonder if anyone has seen antennae like these, and has a
guess on their working principle...
The site claims they work on a "new technological concept",
requiring no radials, no grouding and causing no
interference...

My guess is that it is some form of magnetic antenna, and
would like to hear from someone with more education than
myself.

TNX 73

=====
--
Paulo E.P. Marcondes marcondes at rocketmail dot com
ICQ# 28468654 :: Linux User #137761
Software ? a parte que voc? xinga, hardware ? a parte que voc? chuta.

_____
Do you Yahoo!?
Yahoo! Search - Find what you?re looking for faster
http://search.yahoo.com

1954. Re: [hex-beam] Small Antenna (OFF-TOPIC)

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-12 18:12:50 UTC
From: humberto gonzalez
Topic: 1953 Message: 1954

Hi Paulo, if im correct is like an EH- Antenna, and
you can find more about this in
http://www.eh-antenna.com
Regards
Humberto
--- Paulo Marcondes <marcondes@...>
escribi?: > I was browsing my old bookmarks and found
this:
> http://www.grupojcs.com.br/diex/index.htm
> sorry, it's only written in portuguese...
>
> I wonder if anyone has seen antennae like these, and
> has a
> guess on their working principle...
> The site claims they work on a "new technological
> concept",
> requiring no radials, no grouding and causing no
> interference...
>
> My guess is that it is some form of magnetic
> antenna, and
> would like to hear from someone with more education
> than
> myself.
>
> TNX 73
>
> =====
> --
> Paulo E.P. Marcondes marcondes at rocketmail dot
> com
> ICQ# 28468654 :: Linux User #137761
> Software ? a parte que voc? xinga, hardware ? a
> parte que voc? chuta.
>
> _____
> Do you Yahoo!?
> Yahoo! Search - Find what you?re looking for faster
> http://search.yahoo.com
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>
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> Yahoo! Groups Links
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> hex-beam-unsubscribe@yahoogroups.com
>
>
>

_____
Do You Yahoo!?
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http://net.yahoo.com.mx

1955. how to mount to mast?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-17 16:58:42 UTC
From: Ken Hopper
Topic: 1955 Message: 1955

Dear Hex-beamers,
I need some help to understand how to mount
a HX5Bi to a mast. Is an adapter required?
if so, which ones are available? I have one
that came with the HX30 mast, but I have
decided to use a 5ft single mast section on
a roof top tower instead. Which size (ID/OD?)
mast section should I purchase? any suggestions
for a supplier?
Thanks,
de ken n9vv
http://www.n9vv.com/hexbeam.html

1956. Feeding the HEX

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-18 10:10:49 UTC
From: Edisher Giorgadze
Topic: 1956 Message: 1956

Hello to all HEX fun?s

Well... I?m new in this group and possible I?ve missed
?something? :-) ☐ so have a question:
Did ever anyone tried to feed multiband HEX with
separate feed lines (coaxes), e.g. completely
separated or via remote ant. cable switch and what
result has been achieved, how big was a difference
between initial/original setup and after modification.

73 to all !
Ed

D2PFN, former P5/4L4FN

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http://mail.yahoo.com

1957. Re: [hex-beam] Feeding the HEX

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-19 04:47:41 UTC
From: NA1A
Topic: 1956 Message: 1957

Why bother to modify something that's already working so well?

----- Original Message -----
From: "Edisher Giorgadze" <eg_4l4fn@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, March 18, 2004 2:10 AM
Subject: [hex-beam] Feeding the HEX

> Hello to all HEX fun's
>
> Well... I'm new in this group and possible I've missed
> "something" :-) ☐ so have a question:
> Did ever anyone tried to feed multiband HEX with
> separate feed lines (coaxes), e.g. completely
> separated or via remote ant. cable switch and what
> result has been achieved, how big was a difference
> between initial/original setup and after modification.
>
> 73 to all !
> Ed
>
> D2PFN, former P5/4L4FN
>
>
> _____
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> http://mail.yahoo.com
>
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> Yahoo! Groups Links
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1958. Re: Feeding the HEX

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-20 00:47:00 UTC
From: w4wb
Topic: 1956 Message: 1958

Hi Ed,

Actually, our friend in the "Down Under" (VK-land) tried it and found
that it worked better as I recall with the common feed.

Hope you are doing well. Haven't heard you on yet.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, Edisher Giorgadze <eg_4l4fn@y...>
wrote:
> Hello to all HEX fun's
>
> Well... I'm new in this group and possible I've missed
> "something" :-) ☐ so have a question:
> Did ever anyone tried to feed multiband HEX with
> separate feed lines (coaxes), e.g. completely
> separated or via remote ant. cable switch and what
> result has been achieved, how big was a difference
> between initial/original setup and after modification.
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> 73 to all !
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>
> D2PFN, former P5/4L4FN
>
>
> _____
> Do you Yahoo!?
> Yahoo! Mail - More reliable, more storage, less spam
> http://mail.yahoo.com

1959. HX-5Bi about to go up

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-19 20:25:51 UTC
From: Sean
Topic: 1959 Message: 1959

Hello All...

After being a radio hobbiest (SWL and Amateur) for almost 30 years, I am finally in my dream QTH with room for a tower and proper antenna array! I've purchased a HX-5Bi from Mike and will be mounting it on a Trylon T200-40 with a Yaesu G800SA rotor. The apex of an 80m dipole will be mounted at the 35' mark. This is the first (and hopefully only) tower I've ever put up.

I think I've thought of everything (Polyphasers, grounding block, good quality coax, coax seal, thrust bearing, etc etc,including the Amidon beads)and plan to start construction as soon as the snow melts and the ground is soft enough to start digging.

Any words from the wise on making this all work???? I know it's a wide open question, however I'd really appreciate any tips as I only have one shot at doing this right.

Many thanks!
73
Sean VE3OZ

1960. 6 meter hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-20 16:57:04 UTC
From: t_ashland
Topic: 1960 Message: 1960

Hi,
I'm interested in building a 6 meter hex. I would like to hear from anyone who has built one. I would like to know the specs (dimensions, materials, etc.) I see K0TRL had a frozen photo of one in the photo gallery, but I can't find his e-mail address. I have a commercial hxb5i and love it. It loads up on 6 meters, but I think a 6 meter hexbeam cut for the band would be much better.
Thanks and 73,
Terry, WK0F

1961. Re: 6 meter hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-23 15:21:00 UTC
From: tonyestep
Topic: 1960 Message: 1961

--- In hex-beam@yahoogroups.com, "t_ashland" <t_ashland@y...> wrote:
> Hi,
> I'm interested in building a 6 meter hex.

well, there are some step-by-step pix for a 17m version, along with
formulas for scaling it to any band, at:
http://www.iol.ie/~bravo/ahexbeam.htm

1962. 40meter hex 30 meter hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-23 03:50:00 UTC
From: kevinadam
Topic: 1962 Message: 1962

is there any eznec file for the 40 and 30 meter hex also looking for
more information on the feed point design any pictures would be great
n9iww@...
Thank you

1963. Re: Vertical Hexbeam?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-23 19:47:27 UTC
From: harry8227
Topic: 1932 Message: 1963

This is the first time I have ever tried posting a message in any group and I couldn't find the place where you ask what may be a new questionbut anyway I am going to build a hex beam primarily for 20 meters but other bands as well after I get 20 working. I have some measurements the the elements but they talk about tip spacing for driven and reflective elements. They dont say what the distance for the tips are in reference to. Can some one tell me this or does someone have a little better descriptions of measurements for the hex antenna.
thanks
Harry Robinson
harry8227@...
KC9EOT

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
> A 40m Hexbeam is a nice pipedream for most people,due to the sheer
> size and ideal mounting height constraints.
> It occurred to me that a 40m vertical Hexbeam could be much easier
to
> build and fit into a limited space and should perform quite well
> mounted low to the ground.
>
> If you have enough space it would be fairly easy to erect a 50ft
tall
> wooden,fibreglass,pvc? mast and use 2 sets of 4 non metallic guyes
to
> support the mast and the element wires (no spreader arms required).
>
> I doubt many have sufficient space for the guyes` 30 degree slope
> from 50ft but it may be a possibility for a field day or special
> event.
>
> A couple of crossbooms may be a realistic alternative for the home
> qth and reduces the real estate needed for guyes.
> Like a diamond quad loop the crossboom would receive support from
the
> vertical spreader (or mast in this case).
>
> The Hexbeam has a fairly wide azimuth beamwidth when used
> horizontally so i guess it would be VERY wide as a vertical antenna
> (which is good because you wouldn`t have to(or want to)rotate it
too
> often.
> The elevation beamwidth of vertical arrays is usually very uniform
> covering a lot of angles with equal strength.

>
> The Hexbeam is a real performer when used on the flatside..maybe it
> has equally surprising performance when used as a vertical on the
> lower hf bands.
>
> Best Regards
> Colin

1964. [off-topic] mag loop

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-24 16:45:43 UTC
From: Paulo Marcondes
Topic: 1964 Message: 1964

Does anyone know of a group devoted to the magloops (besides
rec.radio.amateur.antenas?)
or even pages devoted to homebrewing magloops...

I´m interested in them also...they will let me operate from the home
qth, without problems with the owner and xyl...

73

1965. Re: [hex-beam] [off-topic] mag loop

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-24 19:25:22 UTC
From: K8NKE
Topic: 1964 Message: 1965

you might try this link or do a search on google
http://www.geocities.com/gw0tqm/magloop/magloop.htmAt
k8nke
04:45 PM 3/24/04, you wrote:

>Does anyone know of a group devoted to the magloops (besides
>rec.radio.amateur.antenas?)
>or even pages devoted to homebrewing magloops...
>
>I´m interested in them also...they will let me operate from the home
>qth, without problems with the owner and xyl...
>
>73
>
>
>
>
>Yahoo! Groups Links
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>---
>Incoming mail is certified Virus Free.
>Checked by AVG anti-virus system (http://www.grisoft.com).
>Version: 6.0.638 / Virus Database: 409 - Release Date: 3/21/04

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.638 / Virus Database: 409 - Release Date: 3/21/04

[Non-text portions of this message have been removed]

1966. Re: [hex-beam] Digest Number 518

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-25 16:33:11 UTC
From: Eric S. Johansson
Topic: 1966 Message: 1966

hex-beam@yahoogroups.com wrote:
> Message: 1
> Date: Wed, 24 Mar 2004 16:45:43 -0000
> From: "Paulo Marcondes" <marcondes@...>
> Subject: [off-topic] mag loop
>
> Does anyone know of a group devoted to the magloops (besides
> rec.radio.amateur.antenas?)
> or even pages devoted to homebrewing magloops...
>
> I?m interested in them also...they will let me operate from the home
> qth, without problems with the owner and xyl...

http://www.qsl.net/aa5tb/loop.html
http://www.kr1st.com/magloop.htm
http://www.eham.net/articles/7712
http://www.iri.tudelft.nl/~geurink/magnloop.htm
http://www.btinternet.com/~g4fgq.regp/page3.html

in a nutshell, they seem to work very well for restricted space operations. They do require a high-voltage capacitor (preferably vacuum) but there have been some interesting designs for alternative capacitors one can homebrew (i.e. sliding plate and trombone).

my interest is mostly in lower noise 80 and 40 m operation in contrast to a dipole. Can't seem to find any leads telling me how it performs in relation to a dipole or inverted L because it seems that if you have the space for one, you have no interest in the other. I also must admit that copper tubing for an 80 m loop is a bit expensive if you're just going to "try something out". It would be interesting to see if copper screen over PVC would work as well as copper tubing. I also haven't had any questions answered on whether or not copper oxidizing reduces effectiveness of antenna.

I may try a 14 MHz to 29 MHz version as an experiment to see how it deals with local noise, tuning, and if rotating makes any sense given its radiation pattern. Then I'll move down to the 80 m version.

1967. Re: 40meter hex 30 meter hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-25 19:51:05 UTC
From: dl7io
Topic: 1962 Message: 1967

--- In hex-beam@yahoogroups.com, "kevinadam" <n9iww@v...> wrote:
> is there any eznec file for the 40 and 30 meter hex also looking
for
> more information on the feed point design any pictures would be
great
> n9iww@v...
> Thank you

Hello Kevin or Adam?
you may go to the file section under dl7io or to my webpage
(www.dl7io.de). There you will find EZNEC files for a handful of
versions that include 30/40m and if you use the "view antenna"
funtion in eznec you can determine how the feeding is done is this
models (low impedance line, feeding from the bottom!).
I will get the last parts (my new base platform) at the end of next
week and will start directly to build/test all these versions. If you
will give me another month or 2 I sure can present you the results.
Or, what I would like most, try it out parallel for yourself. Than we
have two independent results.
regards Holger, DL7IO

1968. Photos of HEX-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-25 20:33:30 UTC
From: PA2JJB
Topic: 1968 Message: 1968

Forgot to tell you that I put 4 pics of the HEX-beam on my roof in my photomap PA2JJB

73's de Jan PA2JJB

1969. Finally the HEX-beam where it belongs !!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-25 20:29:51 UTC
From: PA2JJB
Topic: 1969 Message: 1969

Hello yo you all,
Today I've placed my HEX-beam on my roof; and its
lots of fun hearing and working all the DX. Worked 3B9C on 12M and
P43JB on 17M in my favourite mode CW. Its fun to turn the antenna
round the globe and hearing the stations becoming weaker and
stronger !!! The SWR on all bands look OK, except for 10M (>2:1); I
think is to short, because I used isolated wire I've kept the dipoles
and reflectors 10cm (about 4 inch) shorter, then DL7IO Holgers
dimensions. When weather is good I will try this weekend to measure
the HEX-beam with the AEA-antenna-analyser or the Rohde and Schwarz
spectrumanalyser, to see how the SWR-curve looks like.
Its was fun building this antenna, and thanks to you all who has
helped me to bring this wonderful project to a good end.

Special thanks to Holger DL7IO, Bud VE7ASK, Davy PE3AA and Lourens
PH1DX for all the usefull info they giving me.

Maybe we can make a HEX-beam-net for Europe on 17M or 20M, to
exchange our experiences with other radiohams. Hope to hear some
suggestions about that.

Best 73's de Jan PA2JJB

TEXEL-ISLAND IOTA-EU038

1970. Re: [hex-beam] Re: Vertical Hexbeam?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-24 01:17:31 UTC
From: Harold Burton
Topic: 1932 Message: 1970

----- Original Message -----
From: "harry8227" <harry8227@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, March 23, 2004 1:47 PM
Subject: [hex-beam] Re: Vertical Hexbeam?

> This is the first time I have ever tried posting a message in any
> group and I couldn't find the place where you ask what may be a new
> questionbut anyway I am going to build a hex beam primarily for 20
> meters but other bands as well after I get 20 working. I have some
> measurements the the elements but they talk about tip spacing for
> driven and reflective elements. They dont say what the distance for
> the tips are in reference to. Can some one tell me this or does
> someone have a little better descriptions of measurements for the hex
> antenna.
> thanks
> Harry Robinson
> harry8227@...
> KC9EOT

If I didn't screw up the URL below it'l let you access a site that will give
you
formulae for calculating various dimensions on hex antennas. Much of the
good
info is for down in the text. Fellow describes building a hexbeam, uses
wrong
numbers in his calculations, gets corrected figures and so on. Hes even got
a
little diagram with corner locater info. If you give it a thorough read I
think
you'll find what you seek. Remember, most of the good formula info is way
down
toward the end. Just read it thoroughly and don't be confused by his early
calculations.
(Which turned out to be wrong, neccesitating a do over for him.)
http://www.iol.ie/~bravo/ahexbeam.htm

Harold
KD5SAK

1971. Re: [hex-beam] Re: Vertical Hexbeam?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-24 11:18:28 UTC
From: Geir Guttormsen
Topic: 1932 Message: 1971

Hello
This link gives all you need.
http://ireland.iol.ie/~bravo/ahexbeam.htm

73 de LA6LJA

Tuesday, March 23, 2004, 8:47:27 PM, you wrote:

h> This is the first time I have ever tried posting a message in any
h> group and I couldn't find the place where you ask what may be a new
h> questionbut anyway I am going to build a hex beam primarily for 20
h> meters but other bands as well after I get 20 working. I have some
h> measurements the the elements but they talk about tip spacing for
h> driven and reflective elements. They dont say what the distance for
h> the tips are in reference to. Can some one tell me this or does
h> someone have a little better descriptions of measurements for the hex
h> antenna.
h> thanks
h> Harry Robinson
h> harry8227@...
h> KC9EOT

h> --- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
>> A 40m Hexbeam is a nice pipedream for most people,due to the sheer
>> size and ideal mounting height constraints.
>> It occurred to me that a 40m vertical Hexbeam could be much easier
h> to
>> build and fit into a limited space and should perform quite well
>> mounted low to the ground.
>>
>> If you have enough space it would be fairly easy to erect a 50ft
h> tall
>> wooden,fibreglass,pvc? mast and use 2 sets of 4 non metallic guyes
h> to
>> support the mast and the element wires (no spreader arms required).
>>
>> I doubt many have sufficient space for the guyes` 30 degree slope
>> from 50ft but it may be a possibility for a field day or special
>> event.
>>
>> A couple of crossbooms may be a realistic alternative for the home
>> qth and reduces the real estate needed for guyes.
>> Like a diamond quad loop the crossboom would receive support from
h> the
>> vertical spreader (or mast in this case).
>>

>> The Hexbeam has a fairly wide azimuth beamwidth when used
>> horizontally so i guess it would be VERY wide as a vertical antenna
>> (which is good because you wouldn`t have to(or want to)rotate it
h> too
>> often.
>> The elevation beamwidth of vertical arrays is usually very uniform
>> covering a lot of angles with equal strength.
>>
>> The Hexbeam is a real performer when used on the flatside..maybe it
>> has equally surprising performance when used as a vertical on the
>> lower hf bands.
>>
>> Best Regards
>> Colin

h> Yahoo! Groups Links

1972. First Measurements on HEX-beam and some quistions for alignment

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-26 21:22:48 UTC
From: PA2JJB
Topic: 1972 Message: 1972

Hello to you HEX-lovers,
This evening I did my first measurements
with the Rohde & Schwarz spectrum-analyser FSH3 on my HEX-beam (see
the 5 new pics in my photomap PA2JJB)on his final place on my roof.
The 15-12-10M are >2:1 so need some pruning; when I turn the beam SWR
changes; I think some old metal garbage on my flat roof is causing
that and will move it tomorrow to another place, to see if SWR
changes. Also I will change my T200 RF-choke by the 8 Amidon
ferritebeads sliding over the coax to see if this makes a different
SWR.

When I change the resonantfrequency of 20M dipole/reflector will the
SWR also change of the other bands or only changing the resonant-
frequency ????

Will chanching the distance between the ends of the dipoles and
reflectors also change the SWR or is this only important for the
front/back value ???

Thanks for your suggestions !!!

Have a nice weekend and many DX in the WPX-Contest with your HEX-Beams

73's de Jan PA2JJB

1973. Re: First Measurements on HEX-beam and some quistions for alignment

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-03-27 17:00:16 UTC
From: dl7io
Topic: 1972 Message: 1973

Hello Jan,
while changing element lengths in a multiband version usually the two attached bands (+/-) are influenced. As bigger the distances of the wires are, as lower is the impact. That means for the 20m elements you will not see to much on the other bands. Have a look on 17m.
Changing the end insulators of the elements is for sure influencing the SWR and the gain. If the SWR is getting better you normaly lose some gain. But it is mostly in the second digit after the point while changing a cm or two. Will say every additional connector in the cable will cost you more gain.
Metal things nearby the antenna can have a big impact on the SWR. So try first to remove those things.
Have a nice weekend,
Holger DL7IO

--- In hex-beam@yahoogroups.com, "PA2JJB" <jj-bakker@q...> wrote:
> Hello to you HEX-lovers,
> This evening I did my first
measurements
> with the Rohde & Schwarz spectrum-analyser FSH3 on my HEX-beam (see
> the 5 new pics in my photomap PA2JJB)on his final place on my roof.
> The 15-12-10M are >2:1 so need some pruning; when I turn the beam
SWR
> changes; I think some old metal garbage on my flat roof is causing
> that and will move it tomorrow to another place, to see if SWR
> changes. Also I will change my T200 RF-choke by the 8 Amidon
> ferritebeads sliding over the coax to see if this makes a different
> SWR.
>
> When I change the resonantfrequency of 20M dipole/reflector will
the
> SWR also change of the other bands or only changing the resonant-
> frequency ????
>
> Will chanching the distance between the ends of the dipoles and
> reflectors also change the SWR or is this only important for the
> front/back value ???
>
>
> Thanks for your suggestions !!!
>
>
> Have a nice weekend and many DX in the WPX-Contest with your HEX-
Beams
>

>
> 73's de Jan PA2JJB

1974. 12M and 10M SWR not < 2,5:1

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-04-01 15:33:16 UTC
From: PA2JJB
Topic: 1777 Message: 1974

Hello Bob,
Spent several hours and hours to align my HEX-Beam. 20-17-
15M are ok now and working fine I think, but 12 and 10M will not
going down the 2,6 point. Wonder if you had this problem, because
your HEX is also near your roof, Bob. What did you use for connection
between the dipoles on the hub??? Hope you can give me the answer, or
somebody else in the group.

Many thanks for eventually amswer(s) and maybe we can make a sked on
20 or 17m to talk about this beautiful antenna.

Best 73's de Jan PA2JJB

Texel-island EU-038

--- In hex-beam@yahoogroups.com, "lz2be" <lz2be@y...> wrote:
> Hello Jan,
>
> I had to make such a decision a year ago and I decided to put it on
> the top of the roof, near the chimney. It is about 2m above the
roof.
> You can see how it looks in Photos session LZ2BE. I would suggest
to
> put your Hex near the chimney at the left side of photo. Your roof
> slope is higher than my house, so Safety First! Think about how you
> will have access to the beam, if it needs some repairment later.
>
> 73 de Bob LZ2BE
>

1975. tower

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-04-07 02:57:32 UTC
From: danbob5
Topic: 1975 Message: 1975

I have a tower that would be perfect for a hex-beam. I am selling my home and will not have a place for it other wise i would build a hex-beam and use it my self. the tower is about 32' tall.

the tower consists of a steel base that sits on the peak of the roof and suports a 18' mast that is guide in 4 directions. at the top is a hing that allows the mast to tip over. the mast is a alum. tube with 3/4 pipe in it that rotates. the rotator bolts to the base and conects to the rotating shaft. the rotator is a chanel master and is included with the tower. PICK UP ONLY I WILL NOT SHIP.
I had a 3 element 10 meter beam on it and it worked great. would be ideal for hex-beam. $100.00
dan in edmonds, wa
supplee1@...
425-743-4814

1976. Another homebrew hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-04-09 21:50:46 UTC
From: Alex Shovkoplyas, VE3NEA
Topic: 1976 Message: 1976

Hello hex-brewers,

I have just finished building a 5-band hex beam. I used a lot of tips from this group, and the construction went very smoothly. TNX to all contributors, and special thanks to DL7IO and VE7ASK for the plots and a detailed manual.

The 10 ft. bamboo poles came from the nearest garden center. The poles and the plywood hub are protected with two layers of Krylon. Two weeks of rains followed by a snowfall proved that this is not a perfect protection, though. Something better should be found, or more layers of Krylon should be applied.

I made the feedline (the first version) of copper strap and placed it inside the center post. Most fixtures are also made of this great material - see the pictures in the Photos section.

With the feedpoint at the bottom and the antenna 1 m above the ground, the SWR was below 1.2 on 18/21/28 MHz, about 2.2 on 24 MHz, and well above 3 on 14 MHz (red sector on my MFJ-207). The SWR on the 'bad' bands improved a bit at 2.5 m above ground, but it was still not good enough.

I also had another problem, the 24 MHz driven element did not fit on the spreaders, and its resonant frequency was too low. Beleve it or not, it took me two days to put 2 and 2 together and to re-measure the 24 MHz wires. The reflector was ok, but the driven element was 2x20 cm longer than needed! I corrected the length, and the SWR went down to 1.2.

This trick did not work on 14 MHz, though. The 5 cm error was corrected, but the SWR stayed the same. I played a lot with the feeding scheme, trying different feedpoints and attaching short pieces of wire or coax between the connection points of the driven elements. Nothing worked. Finally I made another feedline of #8 wire and placed it outside the post, in parallel with the old one. The wire was too stiff to bend around the bolts, so I soldered the eyelets to it at the points of connection. Due to the eyelets, the spacing between the wires does not change near the bolts - see the picture.

With the new feedline and the coax connected to the 14 MHz element, the SWR is about right on all bands, though on 20 m it changes a little when the antenna is rotated, and increases significantly when the soil is wet. I hope it will still be low when I put the antenna on the roof...

73 Alex Shovkoplyas, VE3NEA

1977. 40 meter hex-beam ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-04-10 16:04:02 UTC
From: va2rc_2000
Topic: 1977 Message: 1977

Hello, i plan to built a 40 meter hex-beam, but i'm new with this kind of antenna, can someone give me the formula to calcul the length of driven et reflector ? what is the distance from the bottom of the plate to the feed point ?

I have 20 feet fiberglass pole, is this lenght is enought for 40 meter hex-beam ?

Please help me

Thank you
Francois
VA2RC
Quebec City

1978. Re: 12M and 10M SWR not < 2,5:1

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-04-12 10:48:46 UTC
From: eg_4l4fn
Topic: 1777 Message: 1978

Hello all,

Recently I've decided to "modify" my factory made 10-15m hexbeam
which served me perfectly in P5 - adding 12m band.
Well... I can say, I've succeeded, it was a lucky shot for me.
SWR on 10m is in a range of 1.3-1.8 (1.3 at the center frq. of
28.500), and both for 15 and 12m SWR is in range of 1.2 ☐ 1.4.
Front/back ☐ gave me steady difference on all 3 bands of 4-6 db
and at the around 130 deg. the signal disappears, as it is "predicted"
by manufacturer.
My roof is full of the metal garbage and nothing I can do with but I
put it up on HDX30 telescopic mast on a full length (10m) with small
TV rotor and think this did a good job, it's less affected by the
"unpleasant" surroundings.
Not using a choke at all, (may be have done mistake but neighbors are
happy :-) and me too!) was trying to avoid any additional parts and
with my only 100w don't have a problem to reach any spot in the
world if there is ConDX of course.

What I'm looking for:
I saw some other messages asking and wondering about the vertical
distance between elements for the multiband HEX.
Of course ☐ closer they are they will influence each other more
but what is the optimum? ☐ I would like to know too, does anyone have
an answer proved by experiments?

For instance, I've never seen myself the original 5 band hex
from MT but someone has of course - what is the vertical spacing there
and based on what(!!!), I mean calculations.

73 from D2PFN / 4L4FN

1979. RE: [hex-beam] Re: 12M and 10M SWR not < 2,5:1

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-04-12 12:17:45 UTC
From: Kevin Adam
Topic: 1777 Message: 1979

http://www.iol.ie/~bravo/ahexbeam.htm
N9IWW
Kevin Adam
1239 W. Till Road
Fort Wayne, Indiana 46825-2145

-----Original Message-----
From: eg_4l4fn [mailto:eg_4l4fn@...]
Sent: Monday, April 12, 2004 5:49 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: 12M and 10M SWR not < 2,5:1

Hello all,

Recently I've decided to "modify" my factory made 10-15m hexbeam
which served me perfectly in P5 - adding 12m band.
Well... I can say, I've succeeded, it was a lucky shot for me.
SWR on 10m is in a range of 1.3-1.8 (1.3 at the center frq. of
28.500), and both for 15 and 12m SWR is in range of 1.2 - 1.4.
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My roof is full of the metal garbage and nothing I can do with but I
put it up on HDX30 telescopic mast on a full length (10m) with small
TV rotor and think this did a good job, it's less affected by the
"unpleasant" surroundings.
Not using a choke at all, (may be have done mistake but. neighbors are
happy :-) and me too!) was trying to avoid any additional parts and
with my only 100w don't have a problem to reach any spot in the
world. if there is ConDX of course.

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distance between elements for the multiband HEX.
Of course - closer they are they will influence each other more
but what is the optimum? - I would like to know too, does anyone have
an answer proved by experiments?

For instance, I've never seen myself the original 5 band hex
from MT but someone has of course - what is the vertical spacing there
and based on what(!!!), I mean calculations.

73 from D2PFN / 4L4FN

Yahoo! Groups Links

1980. coax elements

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-04-12 15:40:36 UTC
From: chris
Topic: 1980 Message: 1980

I've looked best I could at the messages archive but the terms are a bit generic, coax and elements appears quite often :)

In reading about the moxon antenna I ran across a version with coax used for the elements that boases a 30/40% reduction in size.

http://www.hamuniverse.com/17mcoaxmox.html

There is also a link from there to another page with some fairly technical analysis of it which puts it in its own category in his view.

http://www.hamuniverse.com/w4rnl.html

The remarks are from Cebik, who is much smarter than me it appears.

Anyway, what I was wondering from those here much smarter than me, does this method have a place in the hexbeam? Mostly its the weight of the coax that appears to be the problem, a 40M monoband hex with coax for elements might droop the other way. Although a mch shortened 20/15/10 might be possible with nice stiff spreaders.

anyway, just a thought. I have no modeling software etc, just alot of dreaming of something that will fit on the roof :)

-chris n0vrp

1981. Re: 12M and 10M SWR not < 2,5:1

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-04-26 07:17:47 UTC
From: Johnny
Topic: 1777 Message: 1981

--The vertical spacing is due to the wire length on the given band.
- In hex-beam@yahoogroups.com, "eg_4l4fn" <eg_4l4fn@y...> wrote:
> Hello all,
>
> Recently I've decided to "modify" my factory made 10-15m hexbeam
> which served me perfectly in P5 - adding 12m band.
> Well... I can say, I've succeeded, it was a lucky shot for me.
> SWR on 10m is in a range of 1.3-1.8 (1.3 at the center frq. of
> 28.500), and both for 15 and 12m SWR is in range of 1.2 ☐ 1.4.
> Front/back ☐ gave me steady difference on all 3 bands of 4-6 db
> and at the around 130 deg. the signal disappears, as it
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> by manufacturer.
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> put it up on HDX30 telescopic mast on a full length (10m) with small
> TV rotor and think this did a good job, it's less affected by the
> "unpleasant" surroundings.
> Not using a choke at all, (may be have done mistake but neighbors
are
> happy :-) and me too!) was trying to avoid any additional parts and
> with my only 100w don't have a problem to reach any spot in the
> world if there is ConDX of course.
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> I saw some other messages asking and wondering about the vertical
> distance between elements for the multiband HEX.
> Of course ☐ closer they are they will influence each other more
> but what is the optimum? ☐ I would like to know too, does anyone
have
> an answer proved by experiments?
>
> For instance, I've never seen myself the original 5 band hex
> from MT but someone has of course - what is the vertical spacing
there
> and based on what(!!!), I mean calculations.
>
> 73 from D2PFN / 4L4FN

1983. Hexbeam HX5B S/N 86

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-04-30 16:57:08 UTC
From: gunnersen2001
Topic: 1983 Message: 1983

Hi Hams,
Just talked to Ali, in Cassablanca, Morocco. Got him on the second call with a big pile up. He gave me a 5/9 signal report, Just wanted to let you know - 17 meters is still open.

73's, Claude KD6CYS

1984. Re: Max-Gain Fiberglass spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-04 22:00:24 UTC
From: lengail2
Topic: 1651 Message: 1984

Harvey,
What were the lengths of the 3/4 and 1/2 inch material?
Did it bend well?
Thanks,
Len K6LRF

--- In hex-beam@yahoogroups.com, "wa2aae" <wa2aae@y...> wrote:
> I went with Max-Gain also and used 6 3/4 tubes and 6 1/2 rods.
Makes
> a sturdy antenna.
>
> Harvey.....WA2AAE
>
>
> -- In hex-beam@yahoogroups.com, "dsimmons1999" <dsimmons@m...>
wrote:
> > Adding to the spreader discussion, I just received an order from
> Max-
> > Gain (http://www.mgs4u.com/fiberg.htm) for the spreaders on my
> > homebrew hex-beam.
> >
> > I ordered the following 8' pieces:
> >
> > QTY Size Type
> > --- ---- ----
> > 3 3/4" tube
> > 3 1/2" tube
> > 3 1/4" solid rod
> >
> > Since UPS cost for 8' packages is really expensive, Max-Gain will
> cut
> > the 3 pieces in half and then you have 6 of everything, avoiding
> the
> > shipping surcharge. Be sure to ask them to sleve the tubes
before
> > cutting; that way you pay for 3 cuts instead of 9. The whole set
> was
> > a bit over $70 shipped to the west coast.
> >
> > The material seems pretty strong. These are definitely heavier
> than
> > fishing pole blanks and should be more durable.
> >
> > The only thing I'm concerned about is that the 1/4" rod is much
> more

> > flexible than the larger tubes. If I pull up on the tip of a
11'
> > assembly, the end thinnest piece does almost all the flexing,
which
> > is totally understandable. I'm planning on using a few spacers
so
> > the tubes are pointing up slightly and this should put the
> spreaders
> > in about the right place for the wire junctions on the higher
> > frequency bands. In other words, I'm still sorting out the
> geometry
> > and base mounting.
> >
> > Allen Bond at Max-Gain mentioned that he gets about a call per
week
> > asking about hex-beam spreaders and thinks this would be the best
> > setup.
> >
> > - Dave
> > KQ6RL
> >
> > Usual disclaimers: no relationship with Max-Gain, just a
customer.

1985. Re: Max-Gain Fiberglass spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-05 23:09:12 UTC
From: wa2aae
Topic: 1651 Message: 1985

The lengths I used for the spreaders were a 8 ft length of 3/4" tubing and a 3 ft length of 1/2" rod. I allowed one foot of the rod to be inserted into the tube, giving a spreader length of 10'. I slit the end of the 3/4" tubing for about one inch to allow a hose clamp to lock the 1/2" rod in place. The fiberglass bent without any problems.

Harvey

--- In hex-beam@yahoogroups.com, "lengail2" <lengail@e...> wrote:
> Harvey,
> What were the lengths of the 3/4 and 1/2 inch material?
> Did it bend well?
> Thanks,
> Len K6LRF
>
>
>
> --- In hex-beam@yahoogroups.com, "wa2aae" <wa2aae@y...> wrote:
> > I went with Max-Gain also and used 6 3/4 tubes and 6 1/2 rods.
> Makes
> > a sturdy antenna.
> >
> > Harvey.....WA2AAE
> >
> >

1986. 40m homemade beam is up in the air

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-06 14:05:33 UTC
From: dl7io
Topic: 1986 Message: 1986

Hello,
I wanted to let you know that my first try on 40m was successful.
The calculated dimensions for a 40m monobander fitted absolutely.
Radiator 1110 cm, reflector 1133cm, insulators 21/27cm.
The beam at 4m already outperformed my dipol at 8m. Now the beam is
at 17m height. The dipol (trap dipol 2 x 13m) has 2-4 S-units less
signal strength.
Will continue with multiband versions starting from 30/40m and keep
you informed.
regards Holger

1987. Re: 40m homemade beam is up in the air

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-06 15:43:25 UTC
From: ei7ba
Topic: 1986 Message: 1987

Congratulations Holger OM.. I think this a "first"?
Vy 73 es tks
John EI7BA

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> Hello,
> I wanted to let you know that my first try on 40m was successful.
> The calculated dimensions for a 40m monobander fitted absolutely.
> Radiator 1110 cm, reflector 1133cm, insulators 21/27cm.
> The beam at 4m already outperformed my dipol at 8m. Now the beam is
> at 17m height. The dipol (trap dipol 2 x 13m) has 2-4 S-units less
> signal strength.
> Will continue with multiband versions starting from 30/40m and keep
> you informed.
> regards Holger

1988. RE: [hex-beam] Re: 40m homemade beam is up in the air

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-06 18:35:37 UTC
From: Kevin Adam
Topic: 1986 Message: 1988

Can anyone tell me the spacing measurements of the center post where it is
connected to the feed line or how to figure it per band?
Please. N9IWW

Kevin Adam
1239 W. Till Road
Fort Wayne, Indiana 46825-2145

Mobile (260) 704-4080
-----Original Message-----
From: ei7ba [mailto:bravo@...]
Sent: Thursday, May 06, 2004 10:43 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: 40m homemade beam is up in the air

Congratulations Holger OM.. I think this a "first"?
Vy 73 es tks
John EI7BA

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> Hello,
> I wanted to let you know that my first try on 40m was successful.
> The calculated dimensions for a 40m monobander fitted absolutely.
> Radiator 1110 cm, reflector 1133cm, insulators 21/27cm.
> The beam at 4m already outperformed my dipol at 8m. Now the beam is
> at 17m height. The dipol (trap dipol 2 x 13m) has 2-4 S-units less
> signal strength.
> Will continue with multiband versions starting from 30/40m and keep
> you informed.
> regards Holger

Yahoo! Groups Links

1989. Re: 40m homemade beam is up in the air

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-06 21:52:30 UTC
From: dl7io
Topic: 1986 Message: 1989

Kevin!
Which version are you talking about?
The feeding for 40m is at a height of 155 cm.
For the 20-10m version please look in the file section under DL7IO
and download the pdf-file.
regards Holger
>
> Can anyone tell me the spacing measurements of the center post
where it is
> connected to the feed line or how to figure it per band?
> Please. N9IWW
>
> Kevin Adam
> 1239 W. Till Road
> Fort Wayne, Indiana 46825-2145

1990. FOR SALE: HXL-17 monobander for 17M

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-07 06:17:07 UTC
From: na1a2001
Topic: 1990 Message: 1990

8 months old HXL-17 monobander. This is the real thing, genuine HexBeam from Traffie Technology. Outstanding performance in excellent condition. Complete with manual, box, just like from the manufacturer. Selling because of changing over to HX5Bi.
$225. E-mail direct to na1a@...

1991. New Products and Specials at Dayton - W4RT Electronics

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-08 15:58:46 UTC
From: w4wb
Topic: 1991 Message: 1991

Hi Folks,

W4RT Electronics will again be at the Dayton Hamvention in our same location, Booth #114 (across the aisle from Bob Heil's Booth). Hope you will drop by and see the new accessories and interesting specials we have this year. Some examples are as follows:

LDG Z-100 Ultra for $149 (this is the same as the regular price for the Z-100 alone!). This is a very special Dayton-ONLY price and applies ONLY to the stock we have at Dayton. No preorders and no backorders at this price. The Z-100 Ultra includes an internal battery pack (with batteries) and circuit mod that allows you to operate the Z-100 Ultra without needing to connect an external power source (but you still can). Nominally, over 10,000 full-tunes and many times more memory tunes before needing to change the long-life batteries. Really cool for portable operations.

500 Hz CW filter for $109 and the 2.3 kHz SSB filter for $125. This is a very special Dayton-ONLY price and applies ONLY to the stock we have at Dayton. No preorders and no backorders at this price. These excellent filters, built by W4RT Electronics, contain either a 7-pole (CW) or a 10-pole (SSB) Collins Mechanical Filter essentially identical in performance to that Yaesu uses in the YF-122C and YF-122S optional filters. Proper filter termination is an integral part of the W4RT filter assembly. Connectors like those on the YF-122C/S allow you to install and remove these filters just as you do with the Yaesu filters. Filter units contain the coding for the FT-857 or FT-897 to recognize it appropriately. Same filter fits the FT-817/ND too.

Wonder Wand Antenna for $99 (regular price is $134). This is a very special Dayton-ONLY price and applies ONLY to the stock we have at Dayton. No preorders and no backorders at this price. The Wonder Wand has been made as compact as possible, without compromising performance. Just pop it in a bag with your rig when going for a walk in the countryside or take it camping. Enjoy radio in the great outdoors without the hassle of erecting more complex antennas. Designed with the Yaesu FT-817, FT-897, and ICOM 703 in mind, the Wonder Wand can also be used on other low-power HF radios up to a maximum output power of 25 watts P.E.P.

Tuned Counterpoise System (TCS) for $89. The Wonder Wand TCS is a portable ground radial system designed to work with the Wonder-Wand antenna, although it will also work very well with other types of antennas such as the Miracle Whip or a long-wire/tuner combo. Quite simply it is a tuning box that interfaces the chassis of the radio to

a short 4m counterpoise, which is extended out over the ground. The best setting is determined by rotating the control knob until a definite increase in received signal is heard or best SWR is observed. Improvement of both received and transmitted signals is typical. Best of all, it is quite small and great for portable operation.

WonderPole for $149 (normal price is $169). This is a very special Dayton-ONLY price and applies ONLY to the stock we have at Dayton. No preorders and no backorders at this price. This is a brand new product that will be shown for the first time at the Hamvention. The WonderPole is a ultra compact dipole (about 12" total length when stored) having a deployed span of about nine feet. The design is related to the Wonder Wand and covers 70 cm through 20 m. This antenna is now a permanent part of my QRP "Go-Bag." It can be set up as a dipole or a vertical dipole and is easy to tune on HF by simply turning the band selector switch like is done on the Wonder Wand. It is rated to work with radios having up to a maximum output power of 25 watts P.E.P.

FT-817 Adjustable Stand for $29. This is a great stand that you just snap onto the FT-817 when you need it. Height is easily adjusted. This stand from bhi Ltd. has been very popular and we have a hard time keeping it in stock. We just got another shipment, but expect they will all be sold on Friday.

Hear It DSP Products. Drop by and try them out for yourself using one of our radios and actual recorded RF (using the ESS Time Machine having 80 kHz bandwidth). The performance of the DSP module in the FT-817 is hard to believe until you hear it for yourself. Check out our prices.

Antenna BOSS for $169. This is a very special Dayton-ONLY price and applies ONLY to the stock we have at Dayton. No preorders and no backorders at this price. The Antenna BOSS" makes essentially any motorized antenna "look like" the Yaesu ATAS-100/120 to the FT-100/D, FT-847, FT-857, and FT-897 radios. Now you can use your radio's own TUNE button for automatic tuning the way it was intended! The Antenna BOSS is simple to install and simple to use. High Sierra Antennas, Hi-Q-Antennas and Tarheel Antennas all work well with The Antenna BOSS.

We look forward to seeing you there!

73,
The W4RT Electronics Dayton Team
Barry W4WB
Ralph N5DOI
Rudd W4TCD

1992. Traffie to be at Dayton

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-08 15:59:28 UTC
From: w4wb
Topic: 1992 Message: 1992

Mike and crew will be at Dayton this year.
73,
Barry W4WB

1993. 20 Meter Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-08 09:13:58 UTC
From: Domenic
Topic: 1993 Message: 1993

Hi All.

I am interested in building a 20 meter hex antenna. I am finding it hard to find info on construction and measurements of the antenna. If you could help please email me at

ddahl@...

Kind Regards Dom VK2YDD

[Non-text portions of this message have been removed]

1994. See photo of Hexbeam on the Amazon Queen on the Amazon River

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-08 18:31:20 UTC
From: tomac14
Topic: 1994 Message: 1994

Hello Fellow Hexbeamers:

"Yankee Doodle" reporting. (aka N0YD)

I've just uploaded a photo of the Hexbeam recently installed by Capt. Phil Gonzales HK3SA on his Amazon Queen located on the Colombian Amazon. Phil is a friend of mine. Ive been telling him how much I liked the Hexbeam so he now has one up on his wonderful river boat named the "Amazon Queen."

The Amazon Queen photo is the third photo in the last row on page 3 of the photos on this users group.

Hope you all enjoy this one-of-a-kind installation.

Tnx and 73,

Tom, N0YD "Yankee Doodle"

1995. Re: [hex-beam] 20 Meter Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-09 05:09:20 UTC
From: KEVIN BD4XA
Topic: 1993 Message: 1995

only test
>Hi All.
>
>I am interested in building a 20 meter hex antenna. I am finding it hard to find info
>on construction and measurements of the antenna. If you could help please email me at
>
>ddahl@netspace.net.au
>
>Kind Regards Dom VK2YDD
>
>[Non-text portions of this message have been removed]
>
>
>
>
>---------- Yahoo! Groups Sponsor ----------~-->
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KEVIN BD4XA
bd4xa@163.com
2004-05-09

1996. 30/40m beam running

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-09 14:20:50 UTC
From: dl7io
Topic: 1996 Message: 1996

Hello,
today I changed the elements and the feeding of the 40m version for a 30/40m beam and it works. Same dimensions as calculated with Eznec.
The next test (version 40/30/20m) will be done when I'm back from the hospital. The titanum will be taken out of my shoulder on tuesday.
Hopefully I can continue next weekend.
dimensions:
40m driven ele. 1110 cm, reflector 1130cm, insulators 10/9 cm
feeding point 160cm from the base plate
30m driven ele. 766 cm, reflector 787 cm, insulators 19/15 cm
feeding point 80 cm from the base plate
low impedance line between the elements
coax feeding at 30m radiator
regards Holger

1997. 30/40m beam running

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-09 20:42:06 UTC
From: dl7io
Topic: 1996 Message: 1997

After a few hours using that beam I can confirm that it works...
I have been running a nice pile up of ja's with a few HL, ZL, 4S7 calling in on 30m and continued on 40m with another run of asian stations. And my call is DL7IO which usually never produces a pile up. Best was a ja1 with 5w (559 on my side) and a zl1 with 10w who was 549 with me.
br Holger

1998. Re: 30/40m beam running

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-16 07:27:21 UTC
From: daisyjkfi
Topic: 1996 Message: 1998

Hi,

I think you have mixed insulators, 19/15cm on 40m and 10/9cm on 30m?

Juha, OH4JK

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> Hello,
> today I changed the elements and the feeding of the 40m version for
a
> 30/40m beam and it works. Same dimensions as calculated with Eznec.
> The next test (version 40/30/20m) will be done when I'm back from
the
> hospital. The titanum will be taken out of my shoulder on tuesday.
> Hopefully I can continue next weekend.
> dimensions:
> 40m driven ele. 1110 cm, reflector 1130cm, insulators 10/9 cm
> feeding point 160cm from the base plate
> 30m driven ele. 766 cm, reflector 787 cm, insulators 19/15 cm
> feeding point 80 cm from the base plate
> low impedance line between the elements
> coax feeding at 30m radiator
> regards Holger

1999. Re: 30/40m beam running

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-18 13:45:47 UTC
From: dl7io
Topic: 1996 Message: 1999

Hello Juha,
no it is correct. 40m has the shorter insulators. I was playing a
long time with EZNEC to get both bands working well. So I finally
came to this design.
regards Holger

> Hi,
>
> I think you have mixed insulators, 19/15cm on 40m and 10/9cm on 30m?
>
> Juha, OH4JK
>

2000. 20/30/40m version working

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-18 14:17:26 UTC
From: dl7io
Topic: 2000 Message: 2000

Hello,
today I build the 3 band version 20-40m.
Dimensions are like in the EZNEC file. I only changed the distance between 30m and 40m from 100cm to 80 cm. This was suitable to the element spacing in the antenna (conform to the shape of my spreaders) for 30/40m.
SWR on 40m is like expected (about 1:2 at 7MHz and going down to higher frequencies) and better than modelled on 30m/20m.

I only have done a few qso's on 20m and local QSO's on 40m. But signals on the beam are again much louder than from my trap dipole.
May be I can try to look for some DX in the late evening.

Here are the dimensions (element length means from feeding point/center hub to the spreader, which is only a half element):

band radiator reflector insulator rad./refl. side
40m 1052cm 1130cm 19/14 cm
30m 770cm 785cm 19/14 cm (yes, same dimensions!)
20m 558cm 566cm 16/11 cm

40/30m distance 80cm
30/20m distance 40cm

regards Holger

2001. First Hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-19 19:28:58 UTC
From: w4my
Topic: 2001 Message: 2001

Bought a 17M monobander at Dayton. Put it up Monday evening last. SWR good. Performance so far? Par with my C3E/Tuner on 17. Hex at 28 feet, C3E at 46 feet. Par with my 40M loop/Tuner, loop at 55 feet in center. Mr. Traffie told me I'd get 6.0 dB gain with this antenna. I'd believe more like 2 maybe 3 tops. Also when I wanted a 20 dollar discount (Dayton Special?) Mr. Traffie he inferred I was cheap. (He actually said I was like him and other hams, cheap!) He was kind of a wise guy, I bought the antenna anyway.

I guess I'm glad I bought it. At least now I see for myself how it is made and can do a homebrew version for 30M. I couldn't see $500+ for the Traffie 30M version.

I had a great conversation with Mr. Traffie JR at Dayton. Very sharp young man. Dad needs to go to charm school.

73 W4MY

2002. Re: [hex-beam] First Hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-19 23:53:03 UTC
From: Bill Tarkington
Topic: 2001 Message: 2002

You just need to wait until you have something valuable that you want to sell to the ham community. THEN you will understand and know what Mr. Traffie meant. Its obvious that you totally misunderstood his comment.
----- Original Message -----
From: "w4my" <w4my@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, May 19, 2004 2:28 PM
Subject: [hex-beam] First Hex-beam

> Bought a 17M monobander at Dayton. Put it up Monday evening last.
> SWR good. Performance so far? Par with my C3E/Tuner on 17. Hex at
> 28 feet, C3E at 46 feet. Par with my 40M loop/Tuner, loop at 55 feet
> in center. Mr. Traffie told me I'd get 6.0 dB gain with this
> antenna. I'd believe more like 2 maybe 3 tops. Also when I wanted a
> 20 dollar discount (Dayton Special?) Mr. Traffie he inferred I was
> cheap. (He actually said I was like him and other hams, cheap!) He
> was kind of a wise guy, I bought the antenna anyway.
>
> I guess I'm glad I bought it. At least now I see for myself how it
> is made and can do a homebrew version for 30M. I couldn't see $500+
> for the Traffie 30M version.
>
> I had a great conversation with Mr. Traffie JR at Dayton. Very sharp
> young man. Dad needs to go to charm school.
>
> 73 W4MY
>
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> Yahoo! Groups Links
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2003. Re: First Hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-23 21:58:09 UTC
From: ik6zer
Topic: 2001 Message: 2003

--- In hex-beam@yahoogroups.com, "w4my" <w4my@y...> wrote:
> Bought a 17M monobander at Dayton. Put it up Monday evening last.
> SWR good. Performance so far? Par with my C3E/Tuner on 17. Hex
at
> 28 feet, C3E at 46 feet. Par with my 40M loop/Tuner, loop at 55
feet
> in center. Mr. Traffie told me I'd get 6.0 dB gain with this
> antenna. I'd believe more like 2 maybe 3 tops. Also when I wanted
a
> 20 dollar discount (Dayton Special?) Mr. Traffie he inferred I was
> cheap. (He actually said I was like him and other hams, cheap!) He
> was kind of a wise guy, I bought the antenna anyway.
>
> I guess I'm glad I bought it. At least now I see for myself how it
> is made and can do a homebrew version for 30M. I couldn't see
$500+
> for the Traffie 30M version.
>
> I had a great conversation with Mr. Traffie JR at Dayton. Very
sharp
> young man. Dad needs to go to charm school.
>
> 73 W4MY

Put the HEX at 46 feet and C3E at 28 feet or ....put the HEX at 55
feet and loop at 28 in the center...and try again!
73, ik6zer

2004. Homebrew 20-17-12-6 Meter Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-26 16:13:19 UTC
From: br_griffin
Topic: 2004 Message: 2004

Construction: 1/2" & 3/4" CPVC spreaders, #14 hard drawn copper elements, Ideal clamps & stainless feed thoughs to secure elements, UV treated dacron insulators & support cords, coax braid feed lines with RG-8 coax feed from the top.
Data Obtained using an Autek VA-1 Antenna Analyzer: Using DL7IO's dimensions as a starting point I learned that the insulator lengths on my beam were not critical w.r.t to spacing of reflector and driven elements to spreader. However, decreasing the distance between the ref. & dir. lowers the input impedence and increasing it raises the impenence. Since my intital impedence on 20, 17 & 12 were low (<50 ohms) I increased the insulator distances on 20 & 17. Little difference was observed on 12 meters. After obtaining the reasonable impedences on each band I decided to change the coax feed from RG-58 to RG-8U (foam) so I can run higher power. I also coiled the coax into a 12 turn choke below the antenna. This caused the input impedences changed dramatically. 20 meters went from 40 to 105 ohms, 17 M went from 55 to 75 ohms and 12 M went from 45 to 65 ohms. By changing the insulator spacing I brought the impedences close to where I started and have a SWR below 2.0 to 1.0 on all bands. I will tackle the 6 meter portion later.
Operation: Tests were done at about 25 ft. above ground with the antenna supported by a rope under a tall fir tree.
Conclusions: I need to do field strength tests to measure gain. Signal reports on 17 & 20 using 50 watts are good, but when receiving the front to back ratio is not as good as 3 el. 10 & 15 meter monoband beams I built. This is an interesting project and materials cost have been aroung $50.

Burton - wb6cyk

2005. Re: Homebrew 20-17-12-6 Meter Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-28 11:45:15 UTC
From: kg4eqd
Topic: 2004 Message: 2005

> Conclusions: I need to do field strength tests to measure gain.
Signal
> reports on 17 & 20 using 50 watts are good, but when receiving the
> front to back ratio is not as good as 3 el. 10 & 15 meter monoband
> beams I built. This is an interesting project and materials cost
have
> been aroung $50.
>
> Burton - wb6cyk

The front-to-back ratio is going to change along with the impedance when you vary the spacing between the DE and reflector. The "best spacing" for front-to-back ratio results in impedances in the 25-30 ohm range.

I also found that my monoband hex experiments had a better F/B ratio than I could acheive with a multi-banded hex attempt. Tweaking one band on the antenna skewed the other. YMMV...

EZNEC does a good job at predicting optimum spacings if you are using bare wire....and the new version is supposed to handle insulated wire too. I found that the EZNEC model predictions for tip spacing matched what my ears could detect on the air and by my radio s-meter (using an attenuator pad receiving W1AW as a beacon).

The predicted wire lengths were not so accurate(from my EZNEC model to reality), but those dimensions appear to be very sensitive to maintaining the hex geometry very closely. I can see someone having problems because of this.

I found that small variations in geometry can slide the SWR resonance up and down. I didn't do a lot of listening, but the F/B ratio appeared relatively stable over a wide bandwidth if the element spacing between the tips remained constant. This is handy for monobanders, because you can then tune the antenna SWR resonance slightly by compressing or elongating the hex(maintaining the fixed tip spacing).

(Hmmm. That's a lot easier to "demonstrate" than it is to explain in writing.)

With a 2:1 transformer, you can get the nice flat swr and really killer f/b ratio. That's easier than tuning for a good 50 ohm match, with a multi band set up.

At least it was easier for me, since I had the toroid for the unun laying around idle.

Your mileage may vary....but its a great project for experimenting, isn't it?

73,
W4KAZ

2006. Re: Homebrew 20-17-12-6 Meter Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-28 21:27:30 UTC
From: br_griffin
Topic: 2004 Message: 2006

--- In hex-beam@yahoogroups.com, "kg4eqd" <kazeringue@a...> wrote:
> Thanks for the input. It is an interesting antenna. I finished my
field strength meter project today and plan to do some testing over
the weekend. I've always wanted a FSM but never took the time to get
the parts. It's really easy to build if you have a VOM with a 50
microamp meter movement. Very broad band on HF if you pick the right
capacitors. Have you done any field strength test on your beam?

2:1 baluns are easy to build if you have the ferrite cores available
but I wanted it to be as simple as possible since it was my first Hex.

Burton

> > Conclusions: I need to do field strength tests to measure gain.
> Signal
> > reports on 17 & 20 using 50 watts are good, but when receiving the
> > front to back ratio is not as good as 3 el. 10 & 15 meter monoband
> > beams I built. This is an interesting project and materials cost
> have
> > been aroung $50.
> >
> > Burton - wb6cyk
>
>
> The front-to-back ratio is going to change along with the impedance
> when you vary the spacing between the DE and reflector. The "best
> spacing" for front-to-back ratio results in impedances in the 25-30
> ohm range.
>
> I also found that my monoband hex experiments had a better F/B ratio
> than I could acheive with a multi-banded hex attempt. Tweaking one
> band on the antenna skewed the other. YMMV...
>
> EZNEC does a good job at predicting optimum spacings if you are using
> bare wire....and the new version is supposed to handle insulated wire
> too. I found that the EZNEC model predictions for tip spacing
> matched what my ears could detect on the air and by my radio s-meter
> (using an attenuator pad receiving W1AW as a beacon).
>
> The predicted wire lengths were not so accurate(from my EZNEC model
> to reality), but those dimensions appear to be very sensitive to
> maintaining the hex geometry very closely. I can see someone having
> problems because of this.
>
> I found that small variations in geometry can slide the SWR resonance
> up and down. I didn't do a lot of listening, but the F/B ratio

> appeared relatively stable over a wide bandwidth if the element
> spacing between the tips remained constant. This is handy for
> monobanders, because you can then tune the antenna SWR resonance
> slightly by compressing or elongating the hex(maintaining the fixed
> tip spacing).
>
> (Hmmm. That's a lot easier to "demonstrate" than it is to explain in
> writing.)
>
> With a 2:1 transformer, you can get the nice flat swr and really
> killer f/b ratio. That's easier than tuning for a good 50 ohm match,
> with a multi band set up.
>
> At least it was easier for me, since I had the toroid for the unun
> laying around idle.
>
> Your mileage may vary....but its a great project for experimenting,
> isn't it?
>
> 73,
> W4KAZ

2007. My first hexagonal beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-29 21:34:37 UTC
From: James Foley
Topic: 2007 Message: 2007

After reading through all the posts and talking to one or two on the air I finally decided to try building one. I have fiberglass spreaders and am using a circular aluminum plate for the hub. Everything is laid out in the back yard to get going. As soon as the light rain coming down stops I will finish assembly and see if my results match what I have seen published. The wire I will be using is #12 solid as that is what I have on hand (about 500 feet of it). Hopefully I will soon be checking into one of the nets using my own homebrew hexagonal beam. I am making it a duo-bander on 20 and 17.
Seeya on the air,
73 de w8nsi jim

2008. instructions to build a 20m hexbeam- please

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-30 18:29:55 UTC
From: andym352003
Topic: 2008 Message: 2008

hi
this is the first time i have posted on this group.
i have just discovered the hexbeam about two days ago.and i,m keen
to build one..
i have searched through some files and instructions .but most are
basic regarding feeder attachment and wire length..and also spacing
for multi band hexbeams..with photo,s
i just wondered if any of you guys could point me in the right
direction

would really appreciate it

best wishes

andy m

2009. Re: [hex-beam] instructions to build a 20m hexbeam- please

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-05-31 03:13:00 UTC
From: kd5dfm@bellsouth.net
Topic: 2008 Message: 2009

i'd just like one in ft and inches lol ;-)

[Non-text portions of this message have been removed]

2010. hexbeam installation file - request please

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-01 14:10:28 UTC
From: andym352003
Topic: 1992 Message: 2010

hi there
do you still have the file for the hexbeam installation please..and
construction.it seems the link is broken

hope you can help.
wanting to build a 14mhz hexbeam..but need more info

best wishes

andy m

2011. Re: hexbeam installation file - request please

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-04 10:24:13 UTC
From: dl7io
Topic: 1992 Message: 2011

Hello Andy.
20m
half driven element: 551 cm
half reflector elem: 569 cm
insulator reflector side: 11cm
insulator radiator side: 15cm

Monoband dimensions can be found in the excel file used for
calculating xyz coordinates. If it does not work here use my webpage
www.dl7io.de

...and for the one asking for in/ft dimensions:
1 inch = 2,54 cm
1 feet = 30,48 cm

or to be more detailed and complete:
1 inch (1") 25.399978 mm
1 inch (1") 2.5399978 cm
1 Foot (1´)=12 inches 30.479974 cm
1 Yard=3 feet=36 inches 91.439921 cm
1 Millimeter 0.03937 inch
1 Zentimeter 0.3937 inch
1 Meter 39.37 inch
1 Meter 3.280843 Feet
1 Meter 1.093614 Yard
1m=100cm=1000mm

regards Holger

> hi there
> do you still have the file for the hexbeam installation please..and
> construction.it seems the link is broken
>
> hope you can help.
> wanting to build a 14mhz hexbeam..but need more info
>
> best wishes
>
> andy m

2012. Re: [hex-beam] Re: hexbeam installation file - request please

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-04 13:35:41 UTC
From: andy moffatt
Topic: 1992 Message: 2012

hi holger
many thanks for you reply.gonna get the spreaders next week and start building..put it aside for a bit at the mo ,due to work..but should start soon
just going to have a look at your site now.

best wishes

andy m

dl7io <dl7io@...> wrote:
Hello Andy.
20m
half driven element: 551 cm
half reflector elem: 569 cm
insulator reflector side: 11cm
insulator radiator side: 15cm

Monoband dimensions can be found in the excel file used for
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1 Meter 39.37 inch
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> best wishes

>
> andy m

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Yahoo! Groups Links

To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

2013. Re: Homebrew 20-17-12-6 Meter Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-07 13:38:27 UTC
From: kg4eqd
Topic: 2004 Message: 2013

> ..... Have you done any field strength test on your beam?
>
> 2:1 baluns are easy to build if you have the ferrite cores available
> but I wanted it to be as simple as possible since it was my first
Hex.
>
> Burton

Burton,
No, I have not done any field strength readings. I generally test things against my known dipole results on known beacon sources such as W1AW, using only my S-meter. I'm more interested in the generalities than the specifics. If it hears as well as the dipole did in the same orientation, I then hunt up a few QSO's to get reports.

Not too scientifically quantitative an analysis....but sufficient for my needs.

I experimented with the hex because I was looking for the F/B and F/side nulling more than I wanted any gain, and my homebrew hex did that quite well, considering how low I had it(only about 25 feet).

I have since cannibalized the hex wires and hardware for other projects. It was just a bit too large for 20 meters, and I have a nice rectangular loop for 20 that plays quite well for my needs, and I can pull that up to about 70 feet. I just can't get the hex high enough for it to really shine.

If I were able to put up a tower in the near future, I'd probably buy a hex for it, because I'd need the short turning radius, and I now know that they have good f/b ratios. For now, its wires in the trees, with the occasional experiment tossed in for giggles.

Sorry my replies take a while, I surf the news group archives only weekly on average.

I'd be curious to know what results you get when you perform testing on your installation. Does the near field match the model projections for radiation pattern? at what height?

good luck,
W4KAZ

2014. [hex-beam] height Homebrew 20-17-12-6 Meter Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-07 16:43:15 UTC
From: Kevin Adam
Topic: 2004 Message: 2014

According to eznec you only need 31 feet that is all the height you need.
And it do the optimal gain

Kevin Adam
1239 W. Till Road
Fort Wayne, Indiana 46825-2145

-----Original Message-----
From: kg4eqd [mailto:kazeringue@aol.com]
Sent: Monday, June 07, 2004 8:38 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Homebrew 20-17-12-6 Meter Hex-Beam

> ..... Have you done any field strength test on your beam?
>
> 2:1 baluns are easy to build if you have the ferrite cores available
> but I wanted it to be as simple as possible since it was my first
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>
> Burton

Burton,
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things against my known dipole results on known beacon sources such
as W1AW, using only my S-meter. I'm more interested in the
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did in the same orientation, I then hunt up a few QSO's to get
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Not too scientifically quantitative an analysis....but sufficient for
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I can pull that up to about 70 feet. I just can't get the hex high
enough for it to really shine.

If I were able to put up a tower in the near future, I'd probably buy
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I'd be curious to know what results you get when you perform testing
on your installation. Does the near field match the model
projections for radiation pattern? at what height?

good luck,
W4KAZ

Yahoo! Groups Links

---

model of a reflected W beam for 40/30/20/17m
feeding from the bottom via low impedance line
lengths for elements and isolators:
band half driven elem. (m) half reflector (m) isolator dr.ele. (cm) isol. refl. (cm)
40 10,50 11,34 20 15
30 7,54 7,85 19 14
20 5,48 5,65 19 14
17 4,33 4,36 16 12
12 3,15 3,19 16 12
distances between the wire elements:
40/30m 100cm
30/20m 30cm
20/17m 20cm
17/12m 10cm

wires noninsulated copper 1,5 cm? diameter

comments &questions are welcome to:
Holger Hannemann, DL7IO
dl7io@qsl.net
www.dl7io.de/reflectedw

[Non-text portions of this message have been removed]

2015. mono band hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-07 19:58:33 UTC
From: steve
Topic: 2015 Message: 2015

```
has anyone built a mono band (17m) hex beam ? would appreciate
help .... thx steve n6kkk
```

2016. Re: mono band hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-08 13:32:13 UTC
From: dl7io
Topic: 2015 Message: 2016

Steve,
have a look here:
http://www.iol.ie/~bravo/ahexbeam.htm
Holger

--- In hex-beam@yahoogroups.com, "steve" <n6kkk@a...> wrote:
> has anyone built a mono band (17m) hex beam ? would appreciate
> help .... thx steve n6kkk

2017. 17m mono

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-08 13:50:33 UTC
From: steve
Topic: 2017 Message: 2017

thank you . had seen that , but skipped over it . thank you for bringing my attention back to it !!! ..... steve n6kkk

2018. PolyGon Guy for sale i Have Extra N9IWW

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-09 17:13:50 UTC
From: Kevin Adam
Topic: 2018 Message: 2018

To fellow Hams I have 3675 feet extra fiberglass guy 3/8 blue grey Rod from Polygon price is .38 cents foot delivery now there are different partial coils lengths 700□ 725□ 875□ 950□ 450□
Please let Linda Brendt polygon know if there is anyone interested in this Linda will ship it to your Location via truck available now today for shipping. These come in 8 foot rolls min diameter lengths above in feet per roll. These are left over partial runs due to machine going down they would like sell them.

```
Please contact Polygon Directly @

Linda Bendt
Polygon Company - Customer Service
Toll Free (U.S.) 1-800-918-9261, ext.224
International: 001-574-586-3145, ext.224
Fax: 1-574-586-7983
E-Mail: linben@...
Linda will be glad to ship these coils to you.

Kevin Adam
1239 W. Till Road
Fort Wayne, Indiana 46825-2145

Mobile (260) 704-4080
```

2019. Re: [hex-beam] PolyGon Guy for sale i Have Extra N9IWW

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-10 23:50:04 UTC
From: Victor Aijala
Topic: 2018 Message: 2019

I just realized I sent you a list of names of our orchestra. Didn't do it on purpose,
just a slip of the fingers....You can delete it all...Sorry
Vic Aijala
By the way, my call is W1BZ and I am interested in the Hex beam. Thats how I
got your email before....But I'm not interested in buying any polygon guy.

----- Original Message -----
From: "Kevin Adam" <n9iww@...>
To: <topband@...>; <towertalk@...>
Cc: <hex-beam@yahoogroups.com>; "Tom Rauch" <w8ji@...>;
<amps-bounces@...>; "Thomas Hix" <w4th@...>;
<k9uwa@...>; <bill@...>
Sent: Wednesday, June 09, 2004 1:13 PM
Subject: [hex-beam] PolyGon Guy for sale i Have Extra N9IWW

To fellow Hams I have 3675 feet extra fiberglass guy 3/8 blue grey Rod from
Polygon price is .38 cents foot delivery now there are different partial
coils lengths 700' 725' 875' 950' 450'
Please let Linda Brendt polygon know if there is anyone interested in this
Linda will ship it to your Location via truck available now today for
shipping. These come in 8 foot rolls min diameter lengths above in feet per
roll. These are left over partial runs due to machine going down they would
like sell them.

Please contact Polygon Directly @

Linda Bendt
Polygon Company - Customer Service
Toll Free (U.S.) 1-800-918-9261, ext.224
International: 001-574-586-3145, ext.224
Fax: 1-574-586-7983
E-Mail: linben@...
Linda will be glad to ship these coils to you.

Kevin Adam
1239 W. Till Road
Fort Wayne, Indiana 46825-2145

Mobile (260) 704-4080

Yahoo! Groups Links

2020. SWR vs res. freq.

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-14 17:19:05 UTC
From: vlatkolovric
Topic: 2020 Message: 2020

Hi,

I made hexbeam 14 MHz (monobander)..
Resonant freq. (DIP meter) is about 250 KHz lower
than minimum of the SWR ..

Anybody experienced anything similar ??

Thank You, Vlatko, 9A2TD

2021. multi beam seperation

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-14 18:53:38 UTC
From: steve
Topic: 2021 Message: 2021

how are you guys keeping your wires seperated on multi band hex beams ? i have a mono band beam built now . i want to make it a 5 band beam . how do i keep the wires seperated ? thank you for your help .... steve n6kkk

2022. Re: multi beam seperation

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-15 03:10:45 UTC
From: steve
Topic: 2021 Message: 2022

--- In hex-beam@yahoogroups.com, "steve" <n6kkk@a...> wrote:
> how are you guys keeping your wires seperated on multi band hex
> beams ? i have a mono band beam built now . i want to make it a 5
> band beam . how do i keep the wires seperated ? thank you for your
> help .... steve n6kkk

********** thank you for the info . will check it out & see what
i can use . thx steve n6kkk

2023. RE: [hex-beam] Re: multi beam seperation

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-15 03:52:45 UTC
From: Kevin Adam
Topic: 2021 Message: 2023

Please visit this site http://www.iol.ie/~bravo/ahexbeam.htm
Since your arrl email address won't accept files need better email address
please I have the information that you need.
What you asking is you need spreader to separate the wires they need to be
sized by band so this is important.
N9IWW
Kevin Adam
1239 W. Till Road
Fort Wayne, Indiana 46825-2145

Mobile (260) 704-4080
-----Original Message-----
From: steve [mailto:n6kkk@...]
Sent: Monday, June 14, 2004 10:11 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: multi beam seperation

--- In hex-beam@yahoogroups.com, "steve" <n6kkk@a...> wrote:
> how are you guys keeping your wires seperated on multi band hex
> beams ? i have a mono band beam built now . i want to make it a 5
> band beam . how do i keep the wires seperated ? thank you for your
> help .... steve n6kkk

********** thank you for the info . will check it out & see what
i can use . thx steve n6kkk

Yahoo! Groups Links

2024. 20M Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-16 20:00:24 UTC
From: Darren G0TSM
Topic: 2024 Message: 2024

Hi all,
last weekend I constructed a 20M mono band hexbeam. I used Holger's dimensions with slight adjustment allowing for pvc insulated wire. I have some fibreglass spreaders but as this is my first attempt I used plastic conduit as I had a bundle lying around, I'll change to the grp spreaders later when (if) I get planning permission for a proper mast to put it on. The results are very interesting, the wire elements are only about 15ft from the ground but the recieved signals are exactly the same as on a 30ft high dipole. The big difference is though is that an S5 signal on the dipole is hard to copy due to local electrical QRM, switching over to the Hex the noise drops away leaving a perfectly clear signal. The front to back seems to be around 4-5 S units on either an MP or a 756pro2. The SWR is below 1.4:1 over the whole band but I do have 230ft of feeder on it, 50M of H100 plus 20M of RG213 (same lengths as on the dipole). When I've finished playing I'll add the other 4 bands and hope to get the finished version up to about 35ft.

It only took Sunday afternoon to build but I did get the hexagonal hub plate cut before hand.

Thanks to all for the advice and to Holger for the dimensions (from the file area).

Darren G0TSM

Darren Collins G0TSM
Southampton UK
SysOp GB7EDX DX Cluster
telnet://gb7edx.com
Local RF access 144.900MHz

2025. Re: 20M Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-18 10:26:49 UTC
From: dl7io
Topic: 2024 Message: 2025

Hello Darren,
congrats to the project. Good to hear the antenna is working. The reduced noise level may have 2 reasons. Depending on the noise source it may be stronger if your antenna is at the same hight like your dipole. Nevertheless I guess the beam will be more quiet. I think the coupling between the elements is in the magnet field component (instead of the electric field like with yagis) because the elements are very close together at the ends and in the middle. That's why it sounds more like a closed loop and shows less noise like quads or magnetic loop antennas. This is very helpful in city locations where you have a lot of industrial and household noise sources. What forces me in this opinion as well is that the SWR is nearly not moving while changing the height of the antenna.
I wish you success with your next steps.
regards Holger

Regarding an earlier made comment that resonance and good SWR are not at the same frequency I will say that is of course correct. Resonance and a good SWR are two different things. At the point of resonance you usually have the best gain. How the feedpoint resistance is at this frequency is a totally different question. To get a good SWR at the same frequency you may have to match the antenna feedpoint to a resistance of your need. The towadays standard of 50 Ohms is given by the industry and the availability of TRVCR's, coax cables etc. The feedpoint resistance at the resonance point can be anywhere. Now we start to optimize the configuration with any kind of matching network (e.g. stubs, gamma matches, baluns or whatever) or with looking for small changes in the design. That is the case done here and means to find a compromise between easy direct feeding and maximum gain.

For this design or familiars like reflected M beams or X-beams you have at the resonance frequency a feedpoint resistance of about 25 Ohm. Changing the design to 50 Ohm means the resonance is at a lower frequency. So if you are gain focussed and talking about a single band solution you go for 25 Ohm design and feed this with a 1/4 Lambda stub of 37 Ohm cable (2 x 75 Ohm in parallel). Once you look for a multiband version it is much easier to use the 50 Ohm designs. Otherwise you need stubs per band or a balun.
If you have EZNEC or any other modelling software take a given design and have a look for 25 Ohm. This dip is much smaller but on the minimum SWR for 25 Ohm you will get more gain. By the way we are talking about 1/2-1dB difference. I have tried to design the beam so that we have a SWR of 1:2 at the CW portion of the band and best SWR is more in the SSB segment. SWR of 1:2 is a good compromise as you can use also automatic amplifiers without problems.

cu

--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
> Hi all,
> last weekend I constructed a 20M mono band hexbeam. I used Holger's
> dimensions with slight adjustment allowing for pvc insulated wire.
I have
> some fibreglass spreaders but as this is my first attempt I used
plastic
> conduit as I had a bundle lying around, I'll change to the grp
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it on.
> The results are very interesting, the wire elements are only about
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> from the ground but the recieved signals are exactly the same as on
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> high dipole. The big difference is though is that an S5 signal on
the
> dipole is hard to copy due to local electrical QRM, switching over
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> Hex the noise drops away leaving a perfectly clear signal. The
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> back seems to be around 4-5 S units on either an MP or a 756pro2.
The SWR
> is below 1.4:1 over the whole band but I do have 230ft of feeder on
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> of H100 plus 20M of RG213 (same lengths as on the dipole). When
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> Thanks to all for the advice and to Holger for the dimensions (from
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> Darren G0TSM
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>
> Darren Collins G0TSM
> Southampton UK
> SysOp GB7EDX DX Cluster
> telnet://gb7edx.com
> Local RF access 144.900MHz
```

2026. Re: 20M Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-18 13:54:20 UTC
From: kg4eqd
Topic: 2024 Message: 2026

> So if you are gain focussed and talking about a single
> band solution you go for 25 Ohm design and feed this with a 1/4
> Lambda stub of 37 Ohm cable (2 x 75 Ohm in parallel).

Here's another alternative approach to the same solution--just FYI.

For a single band, you can also use a more generic series matching section, with 25 ohm line made from 50 ohm coax you might already have on hand, if you already know or can measure its velocity factor.

Greg, W8WWV has a nifty series matching section calculator, and brief explaination at:
http://www.seed-solutions.com/gregordy/Software/SMC.htm

That calculator makes using matching sections a breeze, but matching to impedances lower than the cable impedances calls for paralleling the cables. The technique works well going up to higher impedances from 50 ohms using ladder line as the second line, or matching 50 ohm cable to 75 ohm scrounged CATV hardline(as long as its used for a single band).

For the 25 ohm hexbeam example, it works out to about the same amount of cable as the quarter wave solution, and its essentially the same solution.

For 14.15 kc, each section is 1.292 meters long, using 50 ohm 78% velocity factor Belden 9258 for a quick look-see. (Each section, both the 25 and 50 ohm, is .078 wavelengths * cable velocity factor)

O'course, for high power, you should probably use coax that can handle the load, rather than the relatively wimpy RG8x in my example.

Have fun,
W4KAZ

2027. SWR vs. resonance

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-19 14:03:19 UTC
From: vlatkolovric
Topic: 2027 Message: 2027

Hi,

thank You for comments, but I would like to stress few matters..

- I was thinking about MINIMUM of SWR (not the value)
- One should expect that minimum of SWR corresponds with resonance (more or less), where only real component of the impedance exists
- SWR (value) depends, of course of the antenna itself and impedance of the feeding cable and is a function of the frequency
- By my opinion, shift between minimum SWR and resonance of cca 250 KHz (on 20 m band) is a little bit too high

I was measuring right at the antenna´s feeding point and it could be a reason of the shift (increasing of the capacitance between antenna and surroundings (myself)) !

73, Vlatko

2028. beam height

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-19 18:17:10 UTC
From: steve
Topic: 2028 Message: 2028

ok i know that " the higher the better " is the rule of thumb . i also know that 31' is the minimum for hex meams , more or less . ok the question : propagation is poor right now . yesterday i was surfin on 17m , heard a guy from slovenia , give him a shout . got a 5/5 , gave a 5/5 . my hex beam is @ 5' . is this a fluke or are the hex beams this good ? im thinkin since i live in a "HIGH" wind area i may try it @ 20' instead of 40' to get it to live . your opinions are greatly appreciated !!!! ..... thx steve n6kkk (this is my first attempt at a hex beam) (it is 1.1/1 @ 50 ohms @ 5')

2029. Re: [hex-beam] beam height

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-19 21:53:40 UTC
From: htankin@comcast.net
Topic: 2028 Message: 2029

Steve,

I believe for the HX5Bi 20-10m model..the optimum height is between 35 - 40 feet. Mine's at 30 feet and seems to have performed well over past 3 years. No complaints on this end.

Harry WE1X

> ok i know that " the higher the better " is the rule of thumb . i
> also know that 31' is the minimum for hex meams , more or less .
> ok the question : propagation is poor right now . yesterday i was
> surfin on 17m , heard a guy from slovenia , give him a shout . got a
> 5/5 , gave a 5/5 . my hex beam is @ 5' . is this a fluke or are the
> hex beams this good ? im thinkin since i live in a "HIGH" wind area
> i may try it @ 20' instead of 40' to get it to live . your opinions
> are greatly appreciated !!!! ..... thx steve n6kkk (this is my
> first attempt at a hex beam) (it is 1.1/1 @ 50 ohms @ 5')
>
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> Yahoo! Groups Links
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2030. hex height

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-19 22:03:00 UTC
From: steve
Topic: 2030 Message: 2030

thank you for your input ! ..... steve n6kkk

2031. Re: hex height

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-20 16:51:01 UTC
From: Michael Doherty
Topic: 2030 Message: 2031

ke4uyp has a nice explanation of ideal height (with eznec plots). He's talkling about dipoles and loops but the principle is the same.

http://members.tripod.com/~KE4UYP/index-loop-2.html

Basically, what happens is that as you increase the height of the antenna more than a half wavelength, the vertical lobe starts to split.

I have the bottom of my hexbeam at 32' so the 20 meter elements are at about 35-36 feet, about a half wavelength. I spend most of my time on 17 and it works great.

73's

Michael - kd5wby

2032. height

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-20 17:10:21 UTC
From: steve
Topic: 2032 Message: 2032

mike , thank you . very good article ! i even understand it ! lol
adam (i believe , sorry my memory is really poor) thank you for
the attachements . altho i could not open them , i do appreciate
your effort !! thank you !
got the info i needed from mike . thx all ... steve n6kkk

2033. Proper feedline arrangement

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-22 11:40:39 UTC
From: Paulo Marcondes
Topic: 2033 Message: 2033

Hi guys,

I didn't manage to understand enough of the feedline disposition...

A friend of mine is planning to homebrew one Hex-Beam for his scout group (I was once a scout, too), following some advice that I gave him concerning a better antenna for them...
When I was with them, we were always looking for a beam antenna... We looked at building quads, but that seemed too much complicated...
So I found the HB...
Well... I managed to explain him the overall layout of elements, dimensions, etc...
But what I failed to do is to explain him how to attach the coax to the elements...

I sent him the following drawing, trying to explain how to...

```
--------|-H-|-------- < this is Element 1
| H | < "H" is a common parallel wire,
| H | < like those used in house wiring...
--------|-H-|-------- < Attach it to the elements...
| H |
| H |
--------|-H-|--------
| H |
| H |<--------- This is the central post...
| H |
__|_H_|__ < The parallel wire goes through the base
H
[] < Here comes coax "[]"...
[]
[]
0- < PL259 to radio
```

Am I missing something? Or am I utterly wrong?

2034. Re: [hex-beam] Proper feedline arrangement

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-22 14:19:49 UTC
From: Darren G0TSM
Topic: 2033 Message: 2034

As I understand it, you connect the coax at the top of the common parallel wires. So in a 5 band hex you feed 20M first, 17M 2nd and 10M last.

At 11:40 22/06/2004, you wrote:

```
>Hi guys,
>
>I didn't manage to understand enough of the feedline disposition...
>
>A friend of mine is planning to homebrew one Hex-Beam for his scout
>group (I was once a scout, too), following some advice that I gave
>him concerning a better antenna for them...
>When I was with them, we were always looking for a beam antenna... We
>looked at building quads, but that seemed too much complicated...
>So I found the HB...
>Well... I managed to explain him the overall layout of elements,
>dimensions, etc...
>But what I failed to do is to explain him how to attach the coax to
>the elements...
>
>I sent him the following drawing, trying to explain how to...
>
>--------|-H-|-------- < this is Element 1
> | H | < "H" is a common parallel wire,
> | H | < like those used in house wiring...
>--------|-H-|-------- < Attach it to the elements...
> | H |
> | H |
>--------|-H-|--------
> | H |
> | H |<--------- This is the central post...
> | H |
> __|_H_|__ < The parallel wire goes through the base
> H
> [] < Here comes coax "[]"...
> []
> []
> 0- < PL259 to radio
>
>Am I missing something? Or am I utterly wrong?
```

[Non-text portions of this message have been removed]

2035. feed question #2

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-23 21:15:35 UTC
From: steve
Topic: 2035 Message: 2035

ok , i have miunderstood the feed system apparently . do i
understand on a 5 band hex beam , that you tie all 5 bands to a
common feed for the driven & another one for the reflected wires
together to a single coax ground & feed to the rig ?
i was under the impression that you feed each band as a mono band
using a coax for each band (5 coax's) to a band swichting device to
a single coax to the band selector then to the rig .
apparently i am way off . am i way off ? please straighten me out .
i have looked at the diagrams & now i think i am confused ! lol
..... thx steve n6kkk

2036. Re: feed question #2

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-24 12:52:36 UTC
From: steve
Topic: 2035 Message: 2036

--- In hex-beam@yahoogroups.com, "steve" <n6kkk@a...> wrote:
> ok , i have miunderstood the feed system apparently . do i
> understand on a 5 band hex beam , that you tie all 5 bands to a
> common feed for the driven together to a single coax feed to the
rig ?
> i was under the impression that you feed each band as a mono band
> using a coax for each band (5 coax's) to a band swichting device
to
> a single coax to the band selector then to the rig .
> apparently i am way off . am i way off ? please straighten me
out .
> i have looked at the diagrams & now i think i am confused ! lol
> ..... thx steve n6kkk

2037. Re: [hex-beam] Re: feed question #2

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-24 16:12:42 UTC
From: jerry farek
Topic: 2035 Message: 2037

Normally the Hex is fed by 2 parallel lines down the center pole connecting all five band together and fed with the coax a couple of inches above the 20 Meter taps. It is explained in detail in the pictures and the Hex in 3 hours project. Also look at mine in the photo section N5GND. There are 2 parallel feed rods in the center pole that tie at the SO239 connector at the top.

steve <n6kkk@...> wrote:--- In hex-beam@yahoogroups.com, "steve" <n6kkk@a...> wrote:
> ok , i have miunderstood the feed system apparently . do i
> understand on a 5 band hex beam , that you tie all 5 bands to a
> common feed for the driven together to a single coax feed to the
rig ?
> i was under the impression that you feed each band as a mono band
> using a coax for each band (5 coax's) to a band swichting device
to
> a single coax to the band selector then to the rig .
> apparently i am way off . am i way off ? please straighten me
out .
> i have looked at the diagrams & now i think i am confused ! lol
> ..... thx steve n6kkk

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[Non-text portions of this message have been removed]

2038. Re: [hex-beam] Re: feed question #2

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-24 13:53:37 UTC
From: Lars SM4WGB
Topic: 2035 Message: 2038

Hi Steve
I think you get the best view on this page by DL7IO:
http://www.dl7io.de/reflectedw/files/reflectedW-design-en.pdf
Go to page 9, I think and you will see details.
You can feed all dipols with one coax, maybe separate is also an
alternative but not necessary. Just like any dipole,
feed to one leg and shield to the other leg of the driven element.
Reflector elements are stand alone, not connected to the feeder.

73 de Lars/ SM4WGB

On 2004-06-24 steve wrote:

>
>
>
>--- In hex-beam@yahoogroups.com, "steve" <n6kkk@a...> wrote:
>> ok , i have miunderstood the feed system apparently . do i
>> understand on a 5 band hex beam , that you tie all 5 bands to a
>> common feed for the driven? together to a single coax? feed to the
>rig ?
>>? i was under the impression that you feed each band as a mono band
>> using a coax for each band (5 coax's) to a band swichting device
>to
>> a single coax to the band selector then to the rig .
>>? apparently i am way off . am i way off ? please straighten me
>out .
>> i have looked at the diagrams & now i think i am confused !? lol
>> ..... thx? steve? n6kkk
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2039. Re: [hex-beam] feed question #2

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-24 05:34:34 UTC
From: Lars SM4WGB
Topic: 2035 Message: 2039

Hi Steve
I think you get the best view on this page by DL7IO:
http://www.dl7io.de/reflectedw/files/reflectedW-design-en.pdf
Go to page 9, I think and you will see details.
You can feed all dipols with one coax, maybe separate is also an
alternative but not necessary. Just like any dipole,
feed to one leg and shield to the other leg of the driven element.
Reflector elements are stand alone, not connected to the feeder.

73 de Lars/ SM4WGB

On 2004-06-23 steve wrote:

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>ok , i have miunderstood the feed system apparently . do i
>understand on a 5 band hex beam , that you tie all 5 bands to a
>common feed for the driven & another one for the reflected wires
>together to a single coax ground & feed to the rig ?
> i was under the impression that you feed each band as a mono band
>using a coax for each band (5 coax's) to a band swichting device to
>a single coax to the band selector then to the rig .
> apparently i am way off . am i way off ? please straighten me out .
>i have looked at the diagrams & now i think i am confused !? lol
>..... thx? steve? n6kkk
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2040. feed #2

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-24 18:20:40 UTC
From: steve
Topic: 2040 Message: 2040

ok . good info . thx . good pix also . as i understand it : coax feed at the top , run 2 feed lines (as in a dipole) center feed from coax to one side on driven elements for all 5 bands ... ground feed from coax (braided) to the other side of driven element of all 5 bands . insulated from each other of course . reflectors are on there own , insulated from each other & driven elements . run coax to rig ..... thank you for all your help & patience . if i am wrong again , please let me know . i realize this is simple , but my brain sometimes does not engage correctly , thus big mistakes ! lol thx steve n6kkk

2041. Fiberglass pole/rod source

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-25 13:30:44 UTC
From: Charles
Topic: 2041 Message: 2041

Someone here posted a source for fiberglass poles a while back. I cannot find it. Would you please repost? Thanks, W7MAP

2042. RE: [hex-beam] Fiberglass pole/rod source

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-25 13:58:37 UTC
From: Kevin Adam
Topic: 2041 Message: 2042

Max Gain systems http://www.mgs4u.com/index.html
221 Greencrest Ct., Marietta, GA 30068-3825
Phone: (770) 973-6251
Fax: (815) 461-7730
Email: info@...
Contact them they provide what you need and reasonable to.

N9IWW

Kevin Adam
1239 W. Till Road
Fort Wayne, Indiana 46825-2145

-----Original Message-----
From: Charles [mailto:chuck.shinn@...]
Sent: Friday, June 25, 2004 8:31 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Fiberglass pole/rod source

Someone here posted a source for fiberglass poles a while back. I cannot find it. Would you please repost? Thanks, W7MAP

Yahoo! Groups Links

2043. Re: [hex-beam] Fiberglass pole/rod source

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-25 14:16:43 UTC
From: Don Snodgrass
Topic: 2041 Message: 2043

Hello Cuck and the group...

For one such source, you may want to visit
http://campus.murraystate.edu/org/msuarc/moxon/index.htm . , Just scroll
down the page and click on the third bullet under "What's new".

73

Don
K4QKY
Author, MOXON Antenna Project website
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Don Snodgrass
1624 Tabard Drive
Murray, KY 42071
270-767-9944

http://webpages.charter.net/donsno
k4qky@...

<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<
----- Original Message -----
From: "Charles" <chuck.shinn@...>
To: <hex-beam@yahoogroups.com>
Sent: Friday, June 25, 2004 8:30 AM
Subject: [hex-beam] Fiberglass pole/rod source

> Someone here posted a source for fiberglass poles a while back. I
> cannot find it. Would you please repost? Thanks, W7MAP
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> Yahoo! Groups Links
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2044. RE: [hex-beam] Fiberglass pole/rod source

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-25 14:55:35 UTC
From: Kevin Adam
Topic: 2041 Message: 2044

But fiberglass tube and rod from max gain systems is cheap about 80 dollars total with shipping.
Those fishing rods aren't cheap one rod cost as much as the whole 6 you would need to make a hex beam for max gain systems.
He will ship them via ups makes it so they telescope out to you length you need for even 40 meter thru 10m.
http://www.mgs4u.com/index.html

N9IWW
Kevin Adam
1239 W. Till Road
Fort Wayne, Indiana 46825-2145

-----Original Message-----
From: Don Snodgrass [mailto:k4qky@...]
Sent: Friday, June 25, 2004 9:17 AM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] Fiberglass pole/rod source

Hello Cuck and the group...

For one such source, you may want to visit http://campus.murraystate.edu/org/msuarc/moxon/index.htm . , Just scroll down the page and click on the third bullet under "What's new".

73

Don
K4QKY
Author, MOXON Antenna Project website
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Don Snodgrass
1624 Tabard Drive
Murray, KY 42071
270-767-9944

http://webpages.charter.net/donsno
k4qky@...

<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<
----- Original Message -----
From: "Charles" <chuck.shinn@...>
To: <hex-beam@yahoogroups.com>
Sent: Friday, June 25, 2004 8:30 AM
Subject: [hex-beam] Fiberglass pole/rod source

> Someone here posted a source for fiberglass poles a while back. I
> cannot find it. Would you please repost? Thanks, W7MAP
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2045. Tube and Rod Sizes, was RE: [hex-beam] Fiberglass pole/rod source

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-25 23:17:37 UTC
From: Dave Simmons
Topic: 2041 Message: 2045

I agree that MaxGain is a good source for rod/tubes, but if anyone figures out a good combination of the sizes for the hex beam, please post them.

I purchased 4' tubes and rods (8' pieces cut in half to fit under the UPS shipping extra cost) with 1/4" rod, which fit into 1/2" and then 3/4" tube. The sizes all fit and telescope nicely for a 20-10m hex beam.

However, when bending the assembly, almost all the bend comes from the end 1/4" rod while the 1/2" and larger is much, much stiffer. I haven't spent time on this project since getting the tubing, but it seems like some other combination of sizes would work better.

Any ideas ?

- Dave
KQ6RL

-----Original Message-----
From: Kevin Adam [mailto:n9iww@...]
Sent: Friday, June 25, 2004 7:56 AM
To: hex-beam@yahoogroups.com
Cc: k4qky@...
Subject: RE: [hex-beam] Fiberglass pole/rod source
Importance: High

But fiberglass tube and rod from max gain systems is cheap about 80 dollars total with shipping. Those fishing rods aren't cheap one rod cost as much as the whole 6 you would need to make a hex beam for max gain systems. He will ship them via ups makes it so they telescope out to you length you need for even 40 meter thru 10m. http://www.mgs4u.com/index.html

N9IWW
Kevin Adam
1239 W. Till Road
Fort Wayne, Indiana 46825-2145

-----Original Message-----
From: Don Snodgrass [mailto:k4qky@...]
Sent: Friday, June 25, 2004 9:17 AM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] Fiberglass pole/rod source

Hello Cuck and the group...

For one such source, you may want to visit http://campus.murraystate.edu/org/msuarc/moxon/index.htm . , Just scroll down the page and click on the third bullet under "What's new".

73

Don
K4QKY
Author, MOXON Antenna Project website
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Don Snodgrass
1624 Tabard Drive
Murray, KY 42071
270-767-9944

http://webpages.charter.net/donsno
k4qky@...

<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<
----- Original Message -----
From: "Charles" <chuck.shinn@connect.net>
To: <hex-beam@yahoogroups.com>
Sent: Friday, June 25, 2004 8:30 AM
Subject: [hex-beam] Fiberglass pole/rod source

> Someone here posted a source for fiberglass poles a while back. I
> cannot find it. Would you please repost? Thanks, W7MAP
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2046. Hex Beam Tubing and Wire dimensions, etc.

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-26 05:17:15 UTC
From: gfarek
Topic: 2046 Message: 2046

These are the Tubing dimensions I used that work out. They are from Max-Gain Systems, but only buy the 8 foot lengths, UPS will be considerable more, but the length and sizes work.
Qty. Size Length
6 3/4" 8 feet Tubing
3 1" 8 feet Tubing
1 1 1/4" 8 feet Tubing
1 1/2" 8 feet Tubing
Cut the 1 1/4" Tubing to make 6 pieces to go on your Hex base plate wirh U-Bolts and add the other sizes accordingly. By the way I used 1 1/4" U-Bolts and had to stretch them a little over a piece of barstock to fit over the Fiberglass Tubing. Only use the 1/2" tubing cut in 6 pieces if you need a little more curve at the end, it isn't necessary, some people like it better.
Wire I used was 14 Gauge Flex Weave 167 strand from Rf Davis, a little pricey but excellent wire for the project.
Band Driven Length Reflector Length End Spacings
20M 219" 222" 5" & 7"
17M 169" 172" 3.5" & 5.5"
15M 145" 148" 3.25" & 4.75"
12M 122" 124" 2.5" & 4.25"
10M 109" 111" 2.25" & 3.5"
These are usually within a couple of inches in being tuned correctly.

Mast Spacing (Approx.) From SO239
20M 1.25" 17M 17.625" 15M 22.625" 12M 27.88" 10M 30.25"
The bottom of the center section is wherever the 10M lines look straight. Go up from the with each to find all band straight rather than the mast spacing dimensions, they are close but may vary a little. Even if they are not straight the antenna still should work OK most of the time. Note the wire dimensions are for one leg side only, so you will need two of each of these cut. The Aluminum Hex plate I made was 12" and 5/16" thick, but 1/4" and 9.5" across the flats is good also. By the way you tip spacing at the top will be around 113" for 20 Meters wire. Now maybe this will give a few builders better insight. If anyone would like it I can tell you how to do the center pole and Feed connections too. Jerry Farek N5GND check out my photo section (N5GND)

2047. Thank you all

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-26 13:40:38 UTC
From: Charles
Topic: 2047 Message: 2047

Thanks for all the source replies! Now one other question. IM sort of a neat freque and until I solve (cleanly) most of the percieved issues I dont generally start a project. Besides it lets me skate from doing work that much longer! Anyway, how do you attach the wire elements to the spreaders neatly and without using plastic parts (such as tie wraps) that are subject to UV failures? Is there some piece of hardware that will work on a tapered rod? Or perhaps a non tapered rod such as the MaxGain stuff previously mentioned. Or do most just thru drill and use a soldered wire around the thru wire to insure it wont break?
TIA
Chas

2048. 40/30/20/17m version running

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-28 15:58:17 UTC
From: dl7io
Topic: 2048 Message: 2048

Hello,
I have added 17m to the beam and it is working fine. I can also work on 15/12/10m without using a tuner. SWR is below 1:2. But I don't know how the antenna works here. I have to check it by EZNEC if there is any gain and/or directivity.
regards Holger

2049. 3 HR HEX BEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-06-28 18:15:03 UTC
From: steve
Topic: 2049 Message: 2049

my hat is off to the people that can build a hex beam is "3 hrs" .
they are wizards & are awesome ! hats off to you that can ! .....
steve n6kkk

2050. 15M Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-05 10:29:42 UTC
From: Stuart Cameron
Topic: 2050 Message: 2050

G'day All,

Just wondering if someone can point me in the right direction for dimensions for a 15m hex beam.

Many thanks,

Stuart Cameron
VK2MIC.

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.707 / Virus Database: 463 - Release Date: 15/06/2004

[Non-text portions of this message have been removed]

2051. Re: [hex-beam] 15M Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-05 23:54:50 UTC
From: Stephen D. Jonas
Topic: 2050 Message: 2051

Stuart,

Here is some information that I found on the web about the calculations
for the different sizes.

Steve Jonas
K4SDJ

Stuart Cameron wrote:

>G'day All,
>
>Just wondering if someone can point me in the right direction for dimensions for a 15m hex beam.
>
>Many thanks,
>
>Stuart Cameron
>VK2MIC.
>
>
>---
>Outgoing mail is certified Virus Free.
>Checked by AVG anti-virus system (http://www.grisoft.com).
>Version: 6.0.707 / Virus Database: 463 - Release Date: 15/06/2004
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2052. Arm (spreader) length

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-11 20:30:27 UTC
From: charlie11364
Topic: 2052 Message: 2052

Hi,
1st post here. I was looking through the various plans in the files section, but NONE are really clear on one figure - If you are building the 5 band unit, how long are the arms? DL7IO's plans don't really say. Bud's Bamboo Hex plans are not clear is the 9 foot 3" dimention is the lenght of the arm, OR the length from the middle of the center post to the arm when bent.

Anyway, I have most, if not all the materials lined up (I split one piece of bamboo, but I will splice around it, and I need to dig up "something" for the center), and then I'm ready to go

73 de KC2IXE
Charlie

2053. RE: [hex-beam] Arm (spreader) length

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-12 05:37:46 UTC
From: Kevin Adam
Topic: 2052 Message: 2053

These are the Tubing dimensions I used that work out. They are from Max-Gain Systems, but only buy the 8 foot lengths, UPS will be considerable more, but the length and sizes work.

Qty. Size Length
6 3/4" 8 feet Tubing
3 1" 8 feet Tubing
1 1 1/4" 8 feet Tubing
1 1/2" 8 feet Tubing

Cut the 1 1/4" Tubing to make 6 pieces to go on your Hex base plate wirh U-Bolts and add the other sizes accordingly. By the way I used 1 1/4" U-Bolts and had to stretch them a little over a piece of barstock to fit over the Fiberglass Tubing. Only use the 1/2" tubing cut in 6 pieces if you need a little more curve at the end, it isn't necessary, some people like it better.

Wire I used was 14 Gauge Flex Weave 167 strand from Rf Davis, a little pricey but excellent wire for the project.

Band Driven Length Reflector Length End Spacings
20M 219" 222" 5" & 7"
17M 169" 172" 3.5" & 5.5"
15M 145" 148" 3.25" & 4.75"
12M 122" 124" 2.5" & 4.25"
10M 109" 111" 2.25" & 3.5"

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Mast Spacing (Approx.) From SO239
20M 1.25" 17M 17.625" 15M 22.625" 12M 27.88" 10M 30.25"

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check out my photo section (N5GND)

N9IWW

Kevin Adam
1239 W. Till Road
Fort Wayne, Indiana 46825-2145

Mobile (260) 704-4080
-----Original Message-----
From: charlie11364 [mailto:Charlie@...]
Sent: Sunday, July 11, 2004 3:30 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Arm (spreader) length

Hi,
1st post here. I was looking through the various plans in the files section, but NONE are really clear on one figure - If you are building the 5 band unit, how long are the arms? DL7IO's plans don't really say. Bud's Bamboo Hex plans are not clear is the 9 foot 3" dimention is the lenght of the arm, OR the length from the middle of the center post to the arm when bent.

Anyway, I have most, if not all the materials lined up (I split one piece of bamboo, but I will splice around it, and I need to dig up "something" for the center), and then I'm ready to go

73 de KC2IXE
Charlie

Yahoo! Groups Links

2054. Re: 3 HR HEX BEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-14 17:37:14 UTC
From: ab0si
Topic: 2049 Message: 2054

--- In hex-beam@yahoogroups.com, "steve" <n6kkk@a...> wrote:
> my hat is off to the people that can build a hex beam is "3 hrs" .
> they are wizards & are awesome ! hats off to you that can ! .....
> steve n6kkk

ISn't the 3 hours for putting together a commercially made hexbeam? It took me quite a bit less than 3 hours to do so. I had the help of a neighbor who bent the spreaders while I plugged in the wires. This from a person who has trouble making toast in the morning.

Paul AB0SI

2056. Re: [hex-beam] HX5B-I on 6 Meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-20 23:55:07 UTC
From: jerry farek
Topic: 2056 Message: 2056

My homebrew Hex tunes up with or without auto tune on 6 Meters. Jerry N5GND

w6jpz <alanadler@...> wrote:Has anyone tried the HX5 on 6 meters. Did it tune up ok using an
auto tuner? If so anything of interest?

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[Non-text portions of this message have been removed]

2057. Re: HX5B-I on 6 Meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-21 03:10:50 UTC
From: ab0si
Topic: 2056 Message: 2057

--- In hex-beam@yahoogroups.com, "w6jpz" <alanadler@a...> wrote:
> Has anyone tried the HX5 on 6 meters. Did it tune up ok using an
> auto tuner? If so anything of interest?

I've used my commercial 5-band hexbeam on 6 meters. I'm not sure I really need an antenna tuner to get it to load actually, but I "touch it up" on general principles.

The patern is omnidirectional (no surprise, right?). I really don't notice any difference between the efficiency of the hexbeam and a horizontal loop -- so I took down the loop; one less hunk of aluminium and one less feedine is Good <grin>.

Not that you asked, but fooling around, I've used the hexbeam on 40 and 75. Not effecient at all, but if you have nothing else, it does allow you to play a bit. Loads reasonably well on 30m, by the way.

Paul AB0SI

2058. Re: HX5B-I on 6 Meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-22 20:35:40 UTC
From: lz2be
Topic: 2056 Message: 2058

Hi,
my home made 5b Hexbeam have SWR-2 between 50.0 - 51.5MHz and SWR-1
at 52MHz. Icom-756Pro2 could work without ATU on 6m. Usualy I use
ATU and since May I worked all EU + SU9, ZC4, 7X, 4X.
Computer model shows gain of 5,5dBi and radiation mostly from 18MHz
elements.
73 de Bob LZ2BE

--- In hex-beam@yahoogroups.com, "w6jpz" <alanadler@a...> wrote:
> Has anyone tried the HX5 on 6 meters. Did it tune up ok using an
> auto tuner? If so anything of interest?

2059. measured radiation diagram for 40-20m version

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-27 08:52:15 UTC
From: dl7io
Topic: 2059 Message: 2059

Hello,
after the region 1 fieldday contest where we used my beam for 40m/20m
I have tried to measure the radiation pattern and put the
values/diagrams into an excel file. The file is in the file section
in the DL7IO subfolder and called radiation-diagramm-40-20m.xls

I only could measure each band once so the values are not like from a
computer model and there may be some failures due to correct value
reading, correct angles of the rotor, stable transmitting power,
influence of the surroundings etc. But you get an good indication and
can estimate the diagram. Even on 15m where the 40m elements are
radiating you can find a useful diagram.

regards Holger

www.dl7io.de

2060. 75 meter hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-27 21:30:29 UTC
From: George
Topic: 2060 Message: 2060

Hi .. new member here. Just wondering, has anyone tried a 75 meter hex yet?

George
W6NKI

2061. RE: [hex-beam] 75 meter hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-28 03:46:08 UTC
From: Kevin Adam
Topic: 2060 Message: 2061

I have one in design on paper but can not model it yet need eznec 4 to make
computer model to get best results.
75/80m version I have materials but not a computer model.
These figures are just from using the calculator only not an antenna program

N9IWW
Kevin Adam
1239 W. Till Road
Fort Wayne, Indiana 46825-2145

Mobile (260) 704-4080

-----Original Message-----
From: George [mailto:gmosd@...]
Sent: Tuesday, July 27, 2004 4:30 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] 75 meter hex-beam

Hi .. new member here. Just wondering, has anyone tried a 75 meter
hex yet?

George
W6NKI

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2062. 6 Meter Yagi & HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-28 04:54:23 UTC
From: w6jpz
Topic: 2062 Message: 2062

Has anyone mounted a 3 element or greater yagi on the same mast as an HX5BI? If so does the yagi go beneath the Hex Beam or above it? How much spacing is suggested to keep interaction to a minimum?

2063. Re: 75 meter hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-30 14:40:21 UTC
From: dl7io
Topic: 2060 Message: 2063

I have done the modeling with EZNEC3. The 40m version played like calculated and 80m should do so as well. The dimensions are in my excel file for calculating the XYZ-coordinates on the first page. Look in the files section, DL7IO subfolder for the file: reflectedw-single-band-koordinate.xls. or take the file reflectedwsingleband.zip. The zip contains also the eznec3 files for all single band versions (10-80m)

I have not enough height for a 80 beam and would need to cut a few trees. But this would bring me in real trouble with my wife. I think as long as you cannot get above 30m with the beam you will get the same (or better) results with a 20m high vertical. And this is much easier to build.

regards Holger

> I have one in design on paper but can not model it yet need eznec 4 to make
> computer model to get best results.
> 75/80m version I have materials but not a computer model.
> These figures are just from using the calculator only not an antenna program
>
> N9IWW
> Kevin Adam

>
> Hi .. new member here. Just wondering, has anyone tried a 75 meter
> hex yet?
>
> George
> W6NKI
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> [Non-text portions of this message have been removed]

2064. Re: [hex-beam] Re: 75 meter hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-30 23:45:54 UTC
From: George orourke
Topic: 2060 Message: 2064

Hi Kevin,

I have a 5btv vertical already up about 25', and it does allright. I still don't have a good idea how big an 80 meter hexbeam might be, so this weekend I will go out in the yard and measure it out. So 80m looks like it will work with a hexbeam? Cool. I also found an antenna called a spider beam which is similar but slightly larger.

I have to go down to my hardware place and see if I can find something that will work for the spreaders since they would be so long on 80. Any suggestions?

73

George
W6NKI
gmosd@...

dl7io <dl7io@...> wrote:
I have done the modeling with EZNEC3. The 40m version played like calculated and 80m should do so as well. The dimensions are in my excel file for calculating the XYZ-coordinates on the first page. Look in the files section, DL7IO subfolder for the file: reflectedw-single-band-koordinate.xls. or take the file reflectedwsingleband.zip. The zip contains also the eznec3 files for all single band versions (10-80m)

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regards Holger

> I have one in design on paper but can not model it yet need eznec 4 to make
> computer model to get best results.
> 75/80m version I have materials but not a computer model.
> These figures are just from using the calculator only not an antenna program
>
> N9IWW
> Kevin Adam

>
> Hi .. new member here. Just wondering, has anyone tried a 75 meter
> hex yet?
>

> George
> W6NKI
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[Non-text portions of this message have been removed]

2065. RE: [hex-beam] Re: 75 meter hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-31 01:39:54 UTC
From: Kevin Adam
Topic: 2060 Message: 2065

I ordered some guy rod 3/8" from polygon just for this and my tower install but I won't no if u have any extra or when I would since I'm not on the project currently but I will keep up in mind if I have extra since this is solid rod comes in 8 foot spool min coil size it cost 38 cents foot if you buy 5000 feet I went in with some other haves and we bought 7000 feet total order so I got my 1000 feet extra that I needed. You might look for those old fiber glass Cain poles and pint them because they will rot from sun light fall apart or you could go to a local supplier of gasoline equipment they have a fiberglass pipe that will work to I asked one time it was 1.75 a foot but it comes in 20 + feet lengths and you can glue it together with liquid fiberglass that you get at Napa or boat store. I planned this for the 3/8 solid rod but if call max gain systems he make up a spreader for you not to cheap but not 80 meter beam is cheap to make but this 80 m hex will not cost you an arm and leg to make 200-400 dollars max one other ham ordered spreaders for 10-20 m 90 dollars shipped to him.

I would suggest schedule 40 PVC grey stuff for the center piece one inch diameter
You might try to stay the size of your current one if you could copy your 5bx manual for email it please
N9IWW@...
Also check DL7IO on yahoo groups hex bema he has done a lot the guess work for numbers and information on this since posted a message he made up calculations for 80 to 40 and has offered it for free.
The design I was thinking of covers 80/75 m 60 40 30 20 17 15 12 10 m but if this is so but 10 to 20 only needs 31 feet so I have to move them up the tower to get the right gain this means stacking them on the tower rotate the tower since this 25 g it won't be problem just have to redesign the tower in stall. The 25 g was to support 160 m wire 4 sq so this will be long project.

Kevin Adam
1239 W. Till Road
Fort Wayne, Indiana 46825-2145

Mobile (260) 704-4080

http://groups.yahoo.com/group/hex-beam/

-----Original Message-----
From: George orourke [mailto:gmosd@...]
Sent: Friday, July 30, 2004 6:46 PM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] Re: 75 meter hex-beam

Hi Kevin,

I have a 5btv vertical already up about 25', and it does allright. I still don't have a good idea how big an 80 meter hexbeam might be, so this weekend I will go out in the yard and measure it out. So 80m looks like it will work with a hexbeam? Cool. I also found an antenna called a spider beam which is similar but slightly larger.

I have to go down to my hardware place and see if I can find something that will work for the spreaders since they would be so long on 80. Any suggestions?

73

George
W6NKI
gmosd@...

dl7io <dl7io@...> wrote:
I have done the modeling with EZNEC3. The 40m version played like calculated and 80m should do so as well. The dimensions are in my excel file for calculating the XYZ-coordinates on the first page. Look in the files section, DL7IO subfolder for the file: reflectedw-single-band-koordinate.xls. or take the file reflectedwsingleband.zip. The zip contains also the eznec3 files for all single band versions (10-80m)

I have not enough height for a 80 beam and would need to cut a few trees. But this would bring me in real trouble with my wife. I think as long as you cannot get above 30m with the beam you will get the same (or better) results with a 20m high vertical. And this is much easier to build.

regards Holger

> I have one in design on paper but can not model it yet need eznec 4 to make
> computer model to get best results.
> 75/80m version I have materials but not a computer model.
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> N9IWW
> Kevin Adam

>
> Hi .. new member here. Just wondering, has anyone tried a 75 meter
> hex yet?
>
> George
> W6NKI
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Following data are used to create the X, Y,Z, coordinates with the file :
reflectedW-single-band-koordinaten.xls
length of half reflector: 2260 cm inches 881.4
length of half radiator: 2200 cm inches 858
lenght of reflector insulator: 42 cm inches 16.4
length of radiator insulator: 50 cm inches 19.5

[Non-text portions of this message have been removed]

2066. Re: 6 Meter Yagi & HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-31 13:43:49 UTC
From: ab0si
Topic: 2062 Message: 2066

--- In hex-beam@yahoogroups.com, "w6jpz" <alanadler@a...> wrote:
> Has anyone mounted a 3 element or greater yagi on the same mast as
> an HX5BI? If so does the yagi go beneath the Hex Beam or above it?
> How much spacing is suggested to keep interaction to a minimum?

I have a 4 element 6m yagi mounted about 2.5m under my HX5bi. I have seen little, if any, effect on the hexbeam (or vice versa).

Incedently, the hex loads easily on 6, so I use it for a omni-directional ant on 6.

Paul AB0SI

2067. Re: [hex-beam] Re: 6 Meter Yagi & HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-31 15:38:17 UTC
From: Darren G0TSM
Topic: 2062 Message: 2067

I'm about to install a 5 band 20-10m Hex in between a pair of 6M 5 ele
yagis. The best thing about the Hex is that none of it's wire elements are
parallel with the Yagis elements, I guess this helps to reduce any interaction.

Has anyone used an aluminium centre support instead of a non insulated
one?, I would imagine there would be issues with stray capacitance on the
feed lines that connect the elements.

Darren G0TSM

Darren Collins G0TSM
Southampton UK
SysOp GB7EDX DX Cluster
telnet://gb7edx.com
Local RF access 144.900MHz

At 13:43 31/07/2004, you wrote:
>--- In hex-beam@yahoogroups.com, "w6jpz" <alanadler@a...> wrote:
> > Has anyone mounted a 3 element or greater yagi on the same mast as
> > an HX5BI? If so does the yagi go beneath the Hex Beam or above it?
> > How much spacing is suggested to keep interaction to a minimum?
>
>I have a 4 element 6m yagi mounted about 2.5m under my HX5bi. I have
>seen little, if any, effect on the hexbeam (or vice versa).
>
>Incedently, the hex loads easily on 6, so I use it for a
>omni-directional ant on 6.
>
>Paul AB0SI
>
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2068. RE: [hex-beam] Re: 6 Meter Yagi & HX5BI

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-07-31 23:00:10 UTC
From: Kevin Adam
Topic: 2062 Message: 2068

You need to check it on computer program to make shue because there will be problems it changes the design

N9IWW
Kevin Adam
1239 W. Till Road
Fort Wayne, Indiana 46825-2145

-----Original Message-----
From: Darren G0TSM [mailto:hexbeam@...]
Sent: Saturday, July 31, 2004 10:38 AM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] Re: 6 Meter Yagi & HX5BI

I'm about to install a 5 band 20-10m Hex in between a pair of 6M 5 ele yagis. The best thing about the Hex is that none of it's wire elements are parallel with the Yagis elements, I guess this helps to reduce any interaction.

Has anyone used an aluminium centre support instead of a non insulated one?, I would imagine there would be issues with stray capacitance on the feed lines that connect the elements.

Darren G0TSM

Darren Collins G0TSM
Southampton UK
SysOp GB7EDX DX Cluster
telnet://gb7edx.com
Local RF access 144.900MHz

At 13:43 31/07/2004, you wrote:
>--- In hex-beam@yahoogroups.com, "w6jpz" <alanadler@a...> wrote:
> > Has anyone mounted a 3 element or greater yagi on the same mast as
> > an HX5BI? If so does the yagi go beneath the Hex Beam or above it?
> > How much spacing is suggested to keep interaction to a minimum?
>
>I have a 4 element 6m yagi mounted about 2.5m under my HX5bi. I have
>seen little, if any, effect on the hexbeam (or vice versa).
>
>Incedently, the hex loads easily on 6, so I use it for a
>omni-directional ant on 6.
>
>Paul AB0SI
>
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2069. net freq.

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-09 01:47:51 UTC
From: Ken Luther/KD5ZCL
Topic: 2069 Message: 2069

Hello,

When does the "hexbeam" net meet, and what is the freq???

I tried Sunday on 18.1525 and didn't hear anyone.

Also, has anyone ever compared the hex with a quad or a moxon rectangle??

tnx and 73's
Ken
KD5ZCL

2070. Hexbeam and Yaesu rotor on eBay

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-10 02:30:06 UTC
From: t_ashland
Topic: 2070 Message: 2070

Hi, I have no vested interest, but I thought I would pass this
along. There is a hexbeam and rotor for a pretty good price on eBay.
http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&category=4672&item=5714091330&rd=1
They seem to have a pretty decent Buy It Now price on it.
GL es 73,
Terry, WK0F

2071. Re: [hex-beam] Hexbeam and Yaesu rotor on eBay

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-10 02:56:48 UTC
From: Jason Hissong
Topic: 2070 Message: 2071

OMG... it is right in my neighborhood. There was another Hexbeam in my area?!? :)

73,
Jason

That is a good price BTW...

t_ashland wrote:

>Hi, I have no vested interest, but I thought I would pass this
>along. There is a hexbeam and rotor for a pretty good price on eBay.
>http://cgi.ebay.com/ws/eBayISAPI.dll?
>ViewItem&category=4672&item=5714091330&rd=1
>They seem to have a pretty decent Buy It Now price on it.
>GL es 73,
>Terry, WK0F
>
>
>
--

"A long journey starts with the first step and an understanding spouse."
http://www.n8xe.com
http://www.jasonhissong.com

2072. Re: [hex-beam] Hexbeam and Yaesu rotor on eBay

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-10 06:02:27 UTC
From: Hisashi T Fujinaka
Topic: 2070 Message: 2072

Arrgh. I can't afford to go to Ohio to get it! Other than that, it's a
great price!

On Tue, 10 Aug 2004, t_ashland wrote:

> Hi, I have no vested interest, but I thought I would pass this
> along. There is a hexbeam and rotor for a pretty good price on eBay.
> http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=4672&item=5714091330&rd=1
> They seem to have a pretty decent Buy It Now price on it.
> GL es 73,
> Terry, WK0F

--
Hisashi T Fujinaka - htodd@...
BSEE(6/86) + BSChem(3/95) + BAEnglish(8/95) + MSCS(8/03) + $2.50 = latte

[Non-text portions of this message have been removed]

2073. I need help

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-12 17:49:00 UTC
From: ct2itz
Topic: 2073 Message: 2073

Dear collegues i am a new menber of Hex Beam group, and very i ama to be part of it. I am not a owner of a Hexbeam..but soon i will if all will go well, i would like to ask you a couple of questions.

1)I am DXer, (iam interested on the HXi 5 bander), can i expect to be able to fight on pile ups together with other collegues on the band?

2) I have a rotary dipole that makes 12..17..and 40 meters, which i am very happy with the performance,,shall i put it down?? because might be bad ralation with the HEX Beam?

3) After customs the Hex beam will the may be 1500 USD with UPs included..do you know if somebody has one to sell in excelent conditions??

4) It the rotary dipole i do have some RFI on neighbours , can i expect more or low TVI and RFI on them..i sow on the web page there is this T4 and T5 RFI supressor..does it really works??

Thank you very much for your help, could you be so kinf to anser to my e mail adress.
Best 73´s
CT2ITZ
Paulo

2074. Homebrew hex for 20 meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-14 00:50:38 UTC
From: W1GQL
Topic: 2074 Message: 2074

Hi, I would like to hear from any group members who have
built a homebrew monoband hex-beam, especially for 20 meters.
I have been modeling them for some time and am now in the
process of putting one up.

I live on the coast of Maine and am celebrating my 50th year
of hamming. Since I retired I seem to spend most of my time
playing with wire antennas and checking them out on 20 meter psk31.

Dave Billheimer W1GQL

2075. 40m hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-16 16:54:15 UTC
From: kd1ia@cox.net
Topic: 2075 Message: 2075

HI all, Im concidering a 40m hexbeam for my limmited space home.
How do you all expect it would perform at about 40ft?

I would be up against or replacing a 40m dipole @45ft and a 40m
sloaper also at 45'.

de john ko1h

2076. Re: 40m hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-17 16:15:05 UTC
From: w4wb
Topic: 2075 Message: 2076

--- In hex-beam@yahoogroups.com, kd1ia@c... wrote:
> HI all, Im concidering a 40m hexbeam for my limmited space home.
> How do you all expect it would perform at about 40ft?
>
> I would be up against or replacing a 40m dipole @45ft and a 40m
> sloaper also at 45'.
>
> de john ko1h

If you want to believe a model, it indicates that at about 80', the antenna has a TOA of 22 degs with an elevation BW of 35 degs. At 40', the TOA is 42 degs and EL BW is about 75 degs. Beam width computed at -6 dB points. Frankly, at 40' you will be some what happy because you will have directivity, gain, and F/B; however, you pleasure will increase as the antenna is raised towards 80'. Will beat a dipole without a question. :-)
73,
Barry W4WB

2077. Re: [hex-beam] 40m hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-17 17:34:28 UTC
From: Darren G0TSM
Topic: 2075 Message: 2077

I can't comment on 40M, however, the 20M element of my home brew 5 band hex is @17ft. The signals are exactly the same as on a 20M horizontal dipole @40ft. Just scale it up, in theory a 34ft high 40M hex at my QTH should work about the same as an 80ft dipole... Hmmm, now thats worth considering.

73 Darren G0TSM

At 16:54 16/08/2004, you wrote:
>HI all, Im concidering a 40m hexbeam for my limmited space home.
>How do you all expect it would perform at about 40ft?
>
>I would be up against or replacing a 40m dipole @45ft and a 40m
>sloaper also at 45'.
>
>de john ko1h
>

Darren Collins G0TSM
Southampton UK
SysOp GB7EDX DX Cluster
telnet://gb7edx.com
Local RF access 144.900MHz

[Non-text portions of this message have been removed]

2078. Re: 40m hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-17 18:36:47 UTC
From: dl7io
Topic: 2075 Message: 2078

Hello John,
I probably can give some comments on this because I had to lower down my 40m beam from about 17m (about 54 ft.) to 13m (about 41/42ft).

The difference on 40m is significant. You will DX with the antenna nevertheless but as Barry explained already the toa is much higher at 40ft and the gain a bit less. So every ft. you can get the beam higher helps you a lot.

Last weekend I worked ZL/VK/5H3/YI and others (antena at 41 ft) from here on 40 but it was easier with the antenna 4m higher. ZL is right opposite on the earth for DL and a 18.000 km distance.

For the other bands the hight is okay. Even on 30m it works great at 41 ft.

But the new tower came last week. So before it is winter the antenna will be back at about 50+ft.

regards Holger

PS: By the way, I started to redesign the 20-10m version for bottom feeding like the newer low band designs. The calculations for 20/17m and 20/17/15m are ready.

--- In hex-beam@yahoogroups.com, kd1ia@c... wrote:
> HI all, Im concidering a 40m hexbeam for my limmited space home.
> How do you all expect it would perform at about 40ft?
>
> I would be up against or replacing a 40m dipole @45ft and a 40m
> sloaper also at 45'.
>
> de john ko1h

2079. FOR SALE: HexBeam HX5B

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-17 18:47:05 UTC
From: bigjuniorfan
Topic: 2079 Message: 2079

This is a used Hexbeam HX5B - was used for about one year. Photos can be seen at: http://www.merri-ann.com/antenna.html - in the photos, the antenna is partially put together. All hardware is included. Instructions will be sent to new owner directly from Traffie Technology. Make an offer - merri-ann@...

2080. G5 RV

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-28 18:03:40 UTC
From: malcolm4631
Topic: 2080 Message: 2080

GENTELMEN, I WOULD LIKE TO READ YOUR COLLECTIVE COMMENTS ON HOW YOU THINK THE G5-RV DIPOLE ANTENNA WOULD WORK, SET UP IN THE HEX-BEAM CONFIGAEATION. I LOOK FORWARD TO YOUR REPLYS---MALC-G7BQS

2081. Re: [hex-beam] G5 RV

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-28 22:05:03 UTC
From: kd1ia
Topic: 2080 Message: 2081

hmm not sure. But im looking for HExbeam home brew plans any body got any? de JOhn ko1h
----- Original Message -----
From: malcolm4631
To: hex-beam@yahoogroups.com
Sent: Saturday, August 28, 2004 6:03 PM
Subject: [hex-beam] G5 RV

GENTELMEN, I WOULD LIKE TO READ YOUR COLLECTIVE COMMENTS ON HOW YOU
THINK THE G5-RV DIPOLE ANTENNA WOULD WORK, SET UP IN THE HEX-BEAM
CONFIGAEATION. I LOOK FORWARD TO YOUR REPLYS---MALC-G7BQS

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[Non-text portions of this message have been removed]

2082. Re: G5 RV

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-30 02:00:38 UTC
From: Paul
Topic: 2080 Message: 2082

--- In hex-beam@yahoogroups.com, "kd1ia" <kd1ia@c...> wrote:
> hmm not sure. But im looking for HExbeam home brew plans any body
got any? de JOhn ko1h

John:

Check out the Files section. there are several files there you will
find useful for homebrewing.

Paul AB0SI

2083. Re: [hex-beam] Digest Number 580

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-29 22:10:13 UTC
From: Tim Stewart
Topic: 2083 Message: 2083

Here is my best guess as to how the G5RV would act as a hex beam. Since the G5RV acts as several different styles of antenna... depending on the frequency, the results as a hex are going to be radically different for different frequencies. It will probably be most directional at 14mhz since the radiation will be mostly from the wire top (W configuration in the hex), not the ladder line. On the lower frequencies, most of the radiation is in the ladderline, not the top wire so the W reflector won't have much effect, thus no directivity or gain.
And of course the reactance between the reflector and the driven element in the hex will change the electrical length of the "top wire" so it will probably not center around 14 mhz without adjustments.
The G5RV does require a matching network or antenna tuner which the hex doesn't so it is a step backwards there.
I can't really see much potential benifit of incorporating the G5RV into a hex. It seems that a multiband hex would be all around better for space restrictions, and a G5RV puts more metal in the sky for maybe better overall TX/RX but with no usable directivity, but doesn't show to the neighbors as much.

That's my thoughts,

Tim
KC0STO

> "Although the impedance match for 75-ohm twin-lead or 80-ohm coaxial
> cable at the base of the matching section is good on 14 MHz, and even
> the use of 50-ohm coaxial cable results in only about a 1.8:1 SWR on
> this band, the use of a suitable matching network is nessessary on all
> the other HF bands. This is because the antenna plus the matching
> section will present a REACTIVE load to the feeder on those bands."
>
Here is a good link that describes the characteristics of the G5RV
http://www.g3ycc.karoo.net/g5rv.htm

>
>>GENTELMEN, I WOULD LIKE TO READ YOUR COLLECTIVE COMMENTS ON HOW YOU
>>THINK THE G5-RV DIPOLE ANTENNA WOULD WORK, SET UP IN THE HEX-BEAM
>>CONFIGAEATION. I LOOK FORWARD TO YOUR REPLYS---MALC-G7BQS
>
>
>
>
>
>

2084. RE: hex-beam building plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-30 10:49:49 UTC
From: Kevin Adam
Topic: 2080 Message: 2084

Try these sites and yahoo groups.
http://www.iol.ie/~bravo/ahexbeam.htm

http://www.dl7io.de/reflectedw/index.html

-----Original Message-----
From: Paul [mailto:ab0si@...]
Sent: Sunday, August 29, 2004 9:01 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: G5 RV

--- In hex-beam@yahoogroups.com, "kd1ia" <kd1ia@c...> wrote:
> hmm not sure. But im looking for HExbeam home brew plans any body
got any? de JOhn ko1h

John:

Check out the Files section. there are several files there you will
find useful for homebrewing.

Paul AB0SI

Yahoo! Groups Links

2085. Home Brew Hex Beam (HBHB)

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-31 03:42:55 UTC
From: Dan
Topic: 2085 Message: 2085

Hi group,

Started my started. Speaders and the 20M Element are on. Should have it completed tomorrow, up on a pole by end of week.

Does the group still meet on 17M? Would like to hear other HB's in use.

73,

Dan Spears AF5W
San Antonio TX

2086. Re: Hexbeam and Yaesu rotor on eBay

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-31 12:37:48 UTC
From: rckchp2000
Topic: 2070 Message: 2086

--- In hex-beam@yahoogroups.com, "t_ashland" <t_ashland@y...> wrote:
> Hi, I have no vested interest, but I thought I would pass this
> along. There is a hexbeam and rotor for a pretty good price on
eBay.
> http://cgi.ebay.com/ws/eBayISAPI.dll?
> ViewItem&category=4672&item=5714091330&rd=1
> They seem to have a pretty decent Buy It Now price on it.
> GL es 73,
> Terry, WK0F

I usually search ebay,looking for a hexbeam, every few days....but I
missed that one. Just curious, what was the ebay "buy it now" price??

Rich K2CPE

2087. Re: [hex-beam] Re: Hexbeam and Yaesu rotor on eBay

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-08-31 15:31:01 UTC
From: Andrei Nevis
Topic: 2070 Message: 2087

Hi,
I have a Brand New SpiderBeam unused for Sale.
Anybody interested?
73's Andrei NC2N

rckchp2000 <rckchp@...> wrote:
--- In hex-beam@yahoogroups.com, "t_ashland" <t_ashland@y...> wrote:
> Hi, I have no vested interest, but I thought I would pass this
> along. There is a hexbeam and rotor for a pretty good price on
eBay.
> http://cgi.ebay.com/ws/eBayISAPI.dll?
> ViewItem&category=4672&item=5714091330&rd=1
> They seem to have a pretty decent Buy It Now price on it.
> GL es 73,
> Terry, WK0F

I usually search ebay,looking for a hexbeam, every few days....but I
missed that one. Just curious, what was the ebay "buy it now" price??

Rich K2CPE

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[Non-text portions of this message have been removed]

2088. Re: Hexbeam and Yaesu rotor on eBay

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-01 00:10:25 UTC
From: t_ashland
Topic: 2070 Message: 2088

I can't say for sure, but I think it was something like $450 for both
the rotor and the hexbeam. The catch was it was in Ohio and had to
be picked up. I think it might have been HX5B, not the i version.
I'll let you know if I see anything else pop up there.
73,
Terry, WK0F

--- In hex-beam@yahoogroups.com, "rckchp2000" <rckchp@c...> wrote:
> --- In hex-beam@yahoogroups.com, "t_ashland" <t_ashland@y...> wrote:
> > Hi, I have no vested interest, but I thought I would pass this
> > along. There is a hexbeam and rotor for a pretty good price on
> eBay.
> > http://cgi.ebay.com/ws/eBayISAPI.dll?
> > ViewItem&category=4672&item=5714091330&rd=1
> > They seem to have a pretty decent Buy It Now price on it.
> > GL es 73,
> > Terry, WK0F
>
> I usually search ebay,looking for a hexbeam, every few days....but
I
> missed that one. Just curious, what was the ebay "buy it now"
price??
>
> Rich K2CPE

2089. Re: [hex-beam] Re: Hexbeam and Yaesu rotor on eBay

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-01 01:11:50 UTC
From: Bob Nowak
Topic: 2070 Message: 2089

It sold for $226.99 and had to be removed from a 35
foot tower in Ohio.
--- t_ashland <t_ashland@...> wrote:

> I can't say for sure, but I think it was something
> like $450 for both
> the rotor and the hexbeam. The catch was it was in
> Ohio and had to
> be picked up. I think it might have been HX5B, not
> the i version.
> I'll let you know if I see anything else pop up
> there.
> 73,
> Terry, WK0F
>
> --- In hex-beam@yahoogroups.com, "rckchp2000"
> <rckchp@c...> wrote:
> > --- In hex-beam@yahoogroups.com, "t_ashland"
> <t_ashland@y...> wrote:
> > > Hi, I have no vested interest, but I thought I
> would pass this
> > > along. There is a hexbeam and rotor for a
> pretty good price on
> > eBay.
> > > http://cgi.ebay.com/ws/eBayISAPI.dll?
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> > > They seem to have a pretty decent Buy It Now
> price on it.
> > > GL es 73,
> > > Terry, WK0F
> >
> > I usually search ebay,looking for a hexbeam, every
> few days....but
> I
> > missed that one. Just curious, what was the ebay
> "buy it now"
> price??
> >
> > Rich K2CPE
>
>

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2090. RESULTS OF TEST OF HEXBEAM AGAINST ANOTHER MINIBEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-05 11:23:00 UTC
From: ct2itz
Topic: 2090 Message: 2090

Hi,
I THINK THIS FORUM IS THE RIGHT PLACE TO KNOW WHAT CAN WE EXPECT FROM HEXBEAM IN DX AGAINST OTHER BEAMS.

PLEASE WOULD YOU MIND TO PARTICIPATE AND LET ALL OF US KNOW HOW HIGH CAN FLY WITH HEAXBEAM I,E, 5 BANDER 5I FROM TRAFFIE. CAN WE BRAKE PILE UPS, CAN WE FIGHT WITH OTHER BEAMS.
IF YOU HAVE EXPERIENCED OR HAVE TESTS PLEASE LET US KNOW,BUT NOT FROM THE MANUFACTURER, FROM US WHO USE IT.

PLEASE SHARE YOUR INFORMATION...TKS....
PAULO
CT2ITZ
PLEASE FELL FREE TO CONTACT ME.. IF YOU WISH SO:
paulo.paixao@...

PS:I WOULD APRECCIATTE THAT THE GROUP COULD ALSO GIVE BASIC INFORMATION RELATING HEXBEAM FOR NEW COMMERS TO THE GROUP..I HAVE PUT SEVERAL QUESTIONS INMY FIRST DAY OF MEMBER...NO REPPLIES TO MY QUESTIONS..DO NOT UNDERSTAND..

2091. rotating tipover tower

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-05 02:45:28 UTC
From: danbob5
Topic: 2091 Message: 2091

i have a rotating tipover tower with a chanel master rotator for sale.
i will email a picture to interested parties that are located in the
local area (150 miles) of edmonds, wa. this is a pickup item only. i
had a 10 meter 3 element beam on it and it would be perfect for a hex
beam.i am selling the house and can no longer keep it.
the tower consists of a steel base that sits on the peak of the roof
and suports a 18' mast that is guide in 4 directions. at the top is a
hing that allows the mast to tip over. the mast is a alum. tube with
3/4 pipe in it that rotates. the rotator bolts to the base and
conects to the rotating shaft. the rotator is a chanel master and is
included with the tower. $100.00
dan in edmonds, wa
supplee1@...
425-743-4814

2092. Tunning the antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-05 15:50:47 UTC
From: wa2aae
Topic: 2092 Message: 2092

I have built a Hex Beam antenna and I am having trouble tunning it. The base of the antenna is located about 6' above the ground. At 14.0 MHz the SWR is 1:1 which I believe is acceptable, as the resonant frequency will rise slightly when I raise the antenna. At 18.0 MHz the SWR is >2:1 and my noise bridge indicates that the antenna is resonant below 17 MHz. I've shortened this radiating element, without touching the reflector, by about 4 inches on each end and even though the noise bridge indicates the resonant frequency has moved up I still can not get the SWR down. Any suggestions?

Harvey, WA2AAE

2093. Re: [hex-beam] Tunning the antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-05 20:10:21 UTC
From: jerry farek
Topic: 2092 Message: 2093

My suggestion is to use an antenna analyzer if available. The other is that if you adjust the director, always adjust the reflector. Also make sure you ends are the prescribed distances apart. One other is the center pole, all coneections are made and the same distance parallel down the pole. There are many other things too numerous to check in this space. Good Luck. Jerry, N5GND

wa2aae <wa2aae@...> wrote:
I have built a Hex Beam antenna and I am having trouble tunning it.
The base of the antenna is located about 6' above the ground. At 14.0
MHz the SWR is 1:1 which I believe is acceptable, as the resonant
frequency will rise slightly when I raise the antenna. At 18.0 MHz
the SWR is >2:1 and my noise bridge indicates that the antenna is
resonant below 17 MHz. I've shortened this radiating element, without
touching the reflector, by about 4 inches on each end and even though
the noise bridge indicates the resonant frequency has moved up I
still can not get the SWR down. Any suggestions?

Harvey, WA2AAE

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2094. Re: [hex-beam] RESULTS OF TEST OF HEXBEAM AGAINST ANOTHER MINIBEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-05 20:16:21 UTC
From: jerry farek
Topic: 2090 Message: 2094

I for one have replied to several Hex questions. I also have give some detailed info on building a hex in the past. My Hex works very well in pile ups and always get through. Granted, It will not work better that a 4 element monobander or large periodic. But for most 3 element multiband beams the Hex will hold its own. Propagation in your favor though is always your best friend. If you have any specific building question, me or several other will usually respond. good luck if you are wanting to build one. Jerry, N5GND

ct2itz <paulo.paixao@...> wrote:Hi,
I THINK THIS FORUM IS THE RIGHT PLACE TO KNOW WHAT CAN WE EXPECT FROM
HEXBEAM IN DX AGAINST OTHER BEAMS.

PLEASE WOULD YOU MIND TO PARTICIPATE AND LET ALL OF US KNOW HOW HIGH
CAN FLY WITH HEAXBEAM I,E, 5 BANDER 5I FROM TRAFFIE. CAN WE BRAKE
PILE UPS, CAN WE FIGHT WITH OTHER BEAMS.
IF YOU HAVE EXPERIENCED OR HAVE TESTS PLEASE LET US KNOW,BUT NOT FROM
THE MANUFACTURER, FROM US WHO USE IT.

PLEASE SHARE YOUR INFORMATION...TKS....
PAULO
CT2ITZ
PLEASE FELL FREE TO CONTACT ME.. IF YOU WISH SO:
paulo.paixao@...

PS:I WOULD APRECCIATTE THAT THE GROUP COULD ALSO GIVE BASIC
INFORMATION RELATING HEXBEAM FOR NEW COMMERS TO THE GROUP..I HAVE PUT
SEVERAL QUESTIONS INMY FIRST DAY OF MEMBER...NO REPPLIES TO MY
QUESTIONS..DO NOT UNDERSTAND..

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2095. Plans for a 40 meter Hex Beam ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-05 23:40:22 UTC
From: K0PYK
Topic: 2095 Message: 2095

Hex Beamer's
Are there any plans for a 40 meter Hex Beam???
Tom K0PYK

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2096. RE: [hex-beam] Figures for formula to CAL wire size and spacers

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-06 15:15:31 UTC
From: Kevin Adam
Topic: 2095 Message: 2096

The guys on the HEX reflector all agree the following...

Driven Element = 6180/Freq
Reflector = 6262/Freq
Tip Space (Driven Element) = 102/Freq

Tip Space (Reflector) = 65/Freq
Overall Tip Space = 145/Freq
Answers in inches...

N9IWW Kevin Adam 1239 West Till Rd. Fort Wayne,In 46825-2145

-----Original Message-----
From: K0PYK [mailto:k0pyk@...]
Sent: Sunday, September 05, 2004 6:40 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Plans for a 40 meter Hex Beam ???

Hex Beamer's
Are there any plans for a 40 meter Hex Beam???
Tom K0PYK

_____
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2097. RE: [hex-beam] Figures for formula to CAL wire size and spacers

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-06 17:40:46 UTC
From: Bob Nowak
Topic: 2095 Message: 2097

So that would make the antenna about 36 feet across?
Maybe that's why 20 is about as big as they get.
--- Kevin Adam <n9iww@...> wrote:

>
> The guys on the HEX reflector all agree the
> following...
>
> Driven Element = 6180/Freq
> Reflector = 6262/Freq
> Tip Space (Driven Element) = 102/Freq
>
> Tip Space (Reflector) = 65/Freq
> Overall Tip Space = 145/Freq
> Answers in inches...
>
> N9IWW Kevin Adam 1239 West Till Rd. Fort Wayne,In
> 46825-2145
>
>
> -----Original Message-----
> From: K0PYK [mailto:k0pyk@...]
> Sent: Sunday, September 05, 2004 6:40 PM
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] Plans for a 40 meter Hex Beam
> ???
>
> Hex Beamer's
> Are there any plans for a 40 meter Hex Beam???
> Tom K0PYK
>
>
>
> _____
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2098. [hex-beam] Figures for formula to CAL wire size and spacers

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-06 17:52:33 UTC
From: Kevin Adam
Topic: 2095 Message: 2098

Bob if you check they make one for forty
Hexbeam but it single band only

There are information to go from 10 to 80m

-----Original Message-----
From: Bob Nowak [mailto:rgnowak92019@...]
Sent: Monday, September 06, 2004 12:41 PM
To: hex-beam@yahoogroups.com
Subject: RE: [hex-beam] Figures for formula to CAL wire size and spacers

So that would make the antenna about 36 feet across?
Maybe that's why 20 is about as big as they get.
--- Kevin Adam <n9iww@...> wrote:

>
> The guys on the HEX reflector all agree the
> following...
>
> Driven Element = 6180/Freq
> Reflector = 6262/Freq
> Tip Space (Driven Element) = 102/Freq
>
> Tip Space (Reflector) = 65/Freq
> Overall Tip Space = 145/Freq
> Answers in inches...
>
> N9IWW Kevin Adam 1239 West Till Rd. Fort Wayne,In
> 46825-2145
>
>
> -----Original Message-----
> From: K0PYK [mailto:k0pyk@...]
> Sent: Sunday, September 05, 2004 6:40 PM
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] Plans for a 40 meter Hex Beam
> ???
>
> Hex Beamer's
> Are there any plans for a 40 meter Hex Beam???
> Tom K0PYK
>
>
>
> _____
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2099. Re: Plans for a 40 meter Hex Beam ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-06 18:10:05 UTC
From: dl7io
Topic: 2095 Message: 2099

Hello Tom,
I have calculated (EZNEC) and built versions for 40m (details in posting 1986), 40/30m (posting 1996), 40/30/20m (posting 2000), 40/30/20/17m (currently in use) and 40/30/20/17/12m (not yet built).
More details and files in the file section or on my webpage
www.dl7io.de

Wish you success!
Holger

--- In hex-beam@yahoogroups.com, K0PYK <k0pyk@y...> wrote:
> Hex Beamer's
> Are there any plans for a 40 meter Hex Beam???
> Tom K0PYK
>
>
>
> _____
> Do you Yahoo!?
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> http://promotions.yahoo.com/goldrush

2100. Re: [hex-beam] Figures for formula to CAL wire size and spacers

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-06 18:36:23 UTC
From: Bob Nowak
Topic: 2095 Message: 2100

Are the big ones fixed? I don't see how you could
rotate one much larger than 20. How are they mounted?
If I understand the formulas, a 40 would require
spokes at least 18 feet long. Longer wave lengths
would require even longer spokes.
--- Kevin Adam <n9iww@...> wrote:

> Bob if you check they make one for forty
> Hexbeam but it single band only
>
> There are information to go from 10 to 80m
>
>
> -----Original Message-----
> From: Bob Nowak [mailto:rgnowak92019@...]
> Sent: Monday, September 06, 2004 12:41 PM
> To: hex-beam@yahoogroups.com
> Subject: RE: [hex-beam] Figures for formula to CAL
> wire size and spacers
>
> So that would make the antenna about 36 feet across?
>
> Maybe that's why 20 is about as big as they get.
> --- Kevin Adam <n9iww@...> wrote:
>
> >
> > The guys on the HEX reflector all agree the
> > following...
> >
> > Driven Element = 6180/Freq
> > Reflector = 6262/Freq
> > Tip Space (Driven Element) = 102/Freq
> >
> > Tip Space (Reflector) = 65/Freq
> > Overall Tip Space = 145/Freq
> > Answers in inches...
> >
> > N9IWW Kevin Adam 1239 West Till Rd. Fort Wayne,In
> > 46825-2145
> >
> >
> > -----Original Message-----
> > From: K0PYK [mailto:k0pyk@...]
> > Sent: Sunday, September 05, 2004 6:40 PM
> > To: hex-beam@yahoogroups.com

> > Subject: [hex-beam] Plans for a 40 meter Hex Beam
> > ???
> >
> > Hex Beamer's
> > Are there any plans for a 40 meter Hex Beam???
> > Tom K0PYK
> >
> >
> >
> > _____
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2101. Re: I need help

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-06 18:42:08 UTC
From: dl7io
Topic: 2073 Message: 2101

Dear Paulo,

1) I'm using a 5-bander (20-10m) and a 4 bander (40-17m) homemade versions from my QTH which is far more north from you. I got all major DXpeditions. If you can hear the DX you will get it. If you have some PA-support than it takes you only a few calls. But the antenna has only 2 elements per band...

2) Probably it will interfer somehow the beam. Even wire antennas getting the beam to drift out a bit of the main direction. It is difficult to find out without testing or calculating a model. So if you need to estimate it before building/ordering you need to sit down and do some homework with an antenna simulation software.

3) I know that DL7UCX will sell an original HX5B (not Bi). The beam was about 2 years in the air and has been replaced by a big multiband quad. Ask him for details dl7ucx@qsl.net

4) The polarisation of the antennas are the same. I would not expect big differences. Your signal will be about 6 db more or less than before (depending on your direction). Try some bandpass filters at your radio or filter at the problem-devices.

Regarding your question about beam comparision. This is a difficult field because you need two identical installations for a test and most of the people using this antenna have only limited space and therefore they have not the chance to compare 2 setup's against each other. We had during a field day 2 identical towers of about 20m height and about 50m distance between the towers. On top of number 1 we had a A3S beam and on No.2 we had the 40-20m tribander version I made. On 20m we compared both antennas and had no receiving differences between both antennas. But we got reports of 1S-unit plus on the 40-20m beam from DX. We used max. 100W and had good SWR on both antennas with almost the same length of RG213.

BR Holger

--- In hex-beam@yahoogroups.com, "ct2itz" <paulo.paixao@n...> wrote:
> Dear collegues i am a new menber of Hex Beam group, and very i ama
> to be part of it. I am not a owner of a Hexbeam..but soon i will if
> all will go well, i would like to ask you a couple of questions.
>
> 1)I am DXer, (iam interested on the HXi 5 bander), can i expect
to
> be able to fight on pile ups together with other collegues on the
> band?
>

> 2) I have a rotary dipole that makes 12..17..and 40 meters, which i
> am very happy with the performance,,shall i put it down?? because
> might be bad ralation with the HEX Beam?
>
> 3) After customs the Hex beam will the may be 1500 USD with UPs
> included..do you know if somebody has one to sell in excelent
> conditions??
>
> 4) It the rotary dipole i do have some RFI on neighbours , can i
> expect more or low TVI and RFI on them..i sow on the web page there
> is this T4 and T5 RFI supressor..does it really works??
>
> Thank you very much for your help, could you be so kinf to anser to
> my e mail adress.
> Best 73´s
> CT2ITZ
> Paulo

2102. Re: Figures for formula to CAL wire size and spacers

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-07 03:16:18 UTC
From: w4wb
Topic: 2095 Message: 2102

Hi Kevin,

I'm not sure what you mean by agreement of the guys, but Traffie published these values back in 1995 in Comm. Quarterly. It is in the Group's file. It is in the Publications folder. A good read.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Kevin Adam" <n9iww@v...> wrote:
>
> The guys on the HEX reflector all agree the following...
>
> Driven Element = 6180/Freq
> Reflector = 6262/Freq
> Tip Space (Driven Element) = 102/Freq
>
> Tip Space (Reflector) = 65/Freq
> Overall Tip Space = 145/Freq
> Answers in inches...
>
> N9IWW Kevin Adam 1239 West Till Rd. Fort Wayne,In 46825-2145
>
>
> -----Original Message-----
> From: K0PYK [mailto:k0pyk@y...]
> Sent: Sunday, September 05, 2004 6:40 PM
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] Plans for a 40 meter Hex Beam ???
>
> Hex Beamer's
> Are there any plans for a 40 meter Hex Beam???
> Tom K0PYK
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>
>
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2103. INTERACTION BETWEEN HEXBEAM AND ROTARY DIPOLE / BAD ????

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-13 00:37:26 UTC
From: ct2itz
Topic: 2103 Message: 2103

Dear Ham friends,
Please can anybody help me to find if the Hexbeam will interact with my rotary dipole (12--17--40 meters).
I intended to put the hexbeam at 40 ft high and my rotary dipole 3 meters below,,in the same tower,will the performance of the Hexbeam be afected ??? Can you share your experiences ..it would help me a lot.
Best 73´s
CT2ITZ
Paulo

2104. HEXBEAM 5I VERSUS SPIDERBEAM 5 .. WHICH ONE IS THE BEST FOR DX??

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-13 00:45:04 UTC
From: ct2itz
Topic: 2104 Message: 2104

Hi dear Ham friends..
I HAVE BEEN READING MANY INTERESTING INFO REGARDING THIS ANTENNA. Can you please tell me your opinion..by what i read in webpage she has 4 elements full band on 10..excelent gain and only have 6 kg.
Can this be right???
Hope we all can share this info or tests...
Best 73´s
Paulo
CT2ITZ

2105. RE: [hex-beam] INTERACTION BETWEEN HEXBEAM AND ROTARY DIPOLE / BAD ????

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-13 01:45:30 UTC
From: Kevin Adam
Topic: 2103 Message: 2105

Why not just use the hexbeam 10 thru 40 you need numbers see
http://www.dl7io.de/reflectedw/index.html
Here is the information to make it 10 thru 40 even 80 meter to.

-----Original Message-----
From: ct2itz [mailto:paulo.paixao@...]
Sent: Sunday, September 12, 2004 7:37 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] INTERACTION BETWEEN HEXBEAM AND ROTARY DIPOLE / BAD ????

Dear Ham friends,
Please can anybody help me to find if the Hexbeam will interact with
my rotary dipole (12--17--40 meters).
I intended to put the hexbeam at 40 ft high and my rotary dipole 3
meters below,,in the same tower,will the performance of the Hexbeam
be afected ??? Can you share your experiences ..it would help me a
lot.
Best 73´s
CT2ITZ
Paulo

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2106. Re: HEXBEAM 5I VERSUS SPIDERBEAM 5 .. WHICH ONE IS THE BEST FOR DX??

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-13 13:26:53 UTC
From: dl7io
Topic: 2104 Message: 2106

Paulo,
the spiderbeam is a very nice and interesting design and a fine antenna. The intention of Con (DF4SA) the developer of the spiderbeam was a light weight and portable contest antenna. So it has sure more gain on the bands as it has 3/4 full size elements. And that's why it is focussed on the main bands.
The diameter of the 20m and up version is about 10m because the driven element is not folded. So the overallsize of the spider is more than 1/3 bigger. The antenna is not that symmetrically built like the hexagonal style and has more wind load. A TV-rotor of the 50US$ class will not last very long here.

The extremely small weight comes from the tiny spreaders. They are made out of fishing pole style fiberglas. You cannot use hose clamps to fix the elements on the spreader.

I have been crossing my spreaders with my car (Van) on a concret base. Nothing happened to the spreader. And Traffie uses a good quality as well. The spreaders are the price building component of the antenna.

Both antennas have their advantages.

regards Holger

--- In hex-beam@yahoogroups.com, "ct2itz" <paulo.paixao@n...> wrote:
>
> Hi dear Ham friends..
> I HAVE BEEN READING MANY INTERESTING INFO REGARDING THIS ANTENNA. Can
> you please tell me your opinion..by what i read in webpage she has 4
> elements full band on 10..excelent gain and only have 6 kg.
> Can this be right???
> Hope we all can share this info or tests...
> Best 73´s
> Paulo
> CT2ITZ

2107. new modelfiles

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-13 13:33:20 UTC
From: dl7io
Topic: 2107 Message: 2107

Hello,
I have uploaded a few new EZNEC files to my webpage with models for
bottom feeded beams for 20/17m, 20/17/15m and 20/17/15/12m.
Feeding is always atthe 20m element and not from top.
http://www.dl7io.de
best regards Holger

2108. Why bend the elements?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-13 17:36:31 UTC
From: Tony DiCenzo
Topic: 2108 Message: 2108

Probably a dumb question, but since I have never built an antenna, I will ask it. If the resulting elements are in a flat plane, why bend the spreaders into a cone? WHy not just leave it flat and reduce the stress on the elements and spreaders?

73,

KX1G, Tony
Burlingame California

2109. Re: Why bend the elements?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-13 18:32:41 UTC
From: Michael Doherty
Topic: 2108 Message: 2109

Tony,

Not a dumb question at all. Leaving the spreaders flat would work
ok for a monoband antenna - see the Moxon project at
http://campus.murraystate.edu/org/msuarc/moxon/

Bending the spreaders adds strength and allows the elements for
the various bands to be in their own plane.

I have some pictures in the Photos section under my call.

Good luck,

Michael - kd5wby

--- In hex-beam@yahoogroups.com, "Tony DiCenzo" <tonydicenzo@y...>
wrote:
> Probably a dumb question, but since I have never built an antenna,
I
> will ask it. If the resulting elements are in a flat plane, why
bend
> the spreaders into a cone? WHy not just leave it flat and reduce
the
> stress on the elements and spreaders?
>
> 73,
>
> KX1G, Tony
> Burlingame California

2110. Top vs. Bottom Feeding

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-14 06:04:37 UTC
From: Dave Simmons
Topic: 2107 Message: 2110

Hi -

I'm in the middle of a homebrew hex project, and was wondering if there is any significant difference between top vs. bottom feeding.

I am planning on feeding from the bottom via 8-10 turns of coax wound in a 6" coil taped to the center support, right below the 10m wires. The elements are fed with #14 solid copper wire, uninsulated, running up the outside of the center PVC post.

I'm planning on using the lengths calculated from files posted in the group's site, using l = 6810/f and the similar formulas.

If there are any advantages from top feeding, or if that affects element length at all, please let me know.

Thanks,

- Dave
KQ6RL

2111. Re: [hex-beam] Top vs. Bottom Feeding

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-14 09:38:58 UTC
From: Bob
Topic: 2107 Message: 2111

Hi Dave,

I made my home brew 5b Hex 2 years ago and it works fine since the beginning without any tunning. You can see it in photo section and in files section is MMANA model. This model doesn't show any significant difference between top and bottom feeding, so I did it with bottom feeding. There are 20cm free space on center support pipe below 10m element and spreaders plate. RG-213 is directly connected to 10m element (twin line), then I did 15 turns over the center support (RF choke) and then coax goes down to the shack. I used few plastic cable tightens at the bottom of the choke to keep it stable.

A week ago I did some inspection on the beam. My spreaders are made from fishing rods (exactly the same like in DL7IO presentation file) and I see some change in painting because of UV, but still in good condition. U-bolts used for TV-rotator are rusty (seller told me they are weather-proof..hi). Wires and ropes are with sillicone insulation and they are in excellent condition, even the colour is not changed. Because of insulation my elements are short by factor of 0,954.

I could say that the weakest point in my case are spreaders.

My beam survived in storm of 120km/h a year ago. Base plate is connected to the rotator with 4 bolts 5mm diameter and 2 of them were broken, but it was the only damage.

73 Boyan LZ2BE

Dave Simmons <dave@...> wrote:
Hi -

I'm in the middle of a homebrew hex project, and was wondering if there is any significant difference between top vs. bottom feeding.

I am planning on feeding from the bottom via 8-10 turns of coax wound in a 6" coil taped to the center support, right below the 10m wires. The elements are fed with #14 solid copper wire, uninsulated, running up the outside of the center PVC post.

I'm planning on using the lengths calculated from files posted in the group's site, using l = 6810/f and the similar formulas.

If there are any advantages from top feeding, or if that affects element length at all, please let me know.

Thanks,

- Dave
KQ6RL

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[Non-text portions of this message have been removed]

2112. Re: Top vs. Bottom Feeding

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-14 18:33:32 UTC
From: dl7io
Topic: 2107 Message: 2112

Hello Dave,
yes, there is a significant difference between top and bottom loading.
If you like to save your money and may be material don't work with
this formula building a multiband version.
That may work for a single band antenna around 20-10m but not on a
multiband version.
The low impedance feeding line between the elements is active length
for the radiators. If you compare the dimensions of the single band
elements with the size in multiband versions you may see that
difference, especially for the radiators depending on their distance
from the feeding point.
Until today I was not able to model a 5-band design with good gain
and SWR for all 5 bands with bottom loading. 20m makes problems with
the SWR. It is hard to get it under 1:2 at all and I guess that Bob
also had problems with the 20m SWR.
Even if you have no EZNEC... If you download the EZNEC model files
from my website you will find 2packed files in the zip. One is the
model and the second one is a plain text file with comments. I always
wrote the complete dimensions for elements, distances and element
insulators into this file. That may give you some ideas about the
dimensions for bottom feeded versions. You only need to convert the
metric data into your ft./in. dimensions.
regards Holger
www.dl7io.de

--- In hex-beam@yahoogroups.com, "Dave Simmons" <dave@z...> wrote:
> Hi -
>
> I'm in the middle of a homebrew hex project, and was wondering if
there is
> any significant difference between top vs. bottom feeding.
>
> I am planning on feeding from the bottom via 8-10 turns of coax
wound in a
> 6" coil taped to the center support, right below the 10m wires. The
> elements are fed with #14 solid copper wire, uninsulated, running
up the
> outside of the center PVC post.
>
> I'm planning on using the lengths calculated from files posted in
the
> group's site, using l = 6810/f and the similar formulas.
>
> If there are any advantages from top feeding, or if that affects
element

> length at all, please let me know.
>
> Thanks,
>
> - Dave
> KQ6RL

2113. Re: new modelfiles

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-18 12:00:50 UTC
From: dl7io
Topic: 2107 Message: 2113

I need to correct myself. The feeding is of course not at the 20m element but on the element with the highest frequency or the bottom installed element in the mechanical design.
Sorry for confusing, Holger

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
> Hello,
> I have uploaded a few new EZNEC files to my webpage with models for
> bottom feeded beams for 20/17m, 20/17/15m and 20/17/15/12m.
> Feeding is always atthe 20m element and not from top.
> http://www.dl7io.de
> best regards Holger

2114. fixing antenna elements to spars

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-19 01:24:12 UTC
From: Eric S. Johansson
Topic: 2114 Message: 2114

I have been playing around with building a portable version of the hex beam. One thing I'm puzzled by is how to measure where the wires attach to the spars. I've followed the guidelines for attachment points on the center post as specified by dl7io but I am puzzled as to where to attach the element wires on the spars.

---eric

2115. Re: fixing antenna elements to spars

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-22 20:50:19 UTC
From: dl7io
Topic: 2114 Message: 2115

Hello Eric,
what are "spars"? Is it the insulator at the element end or the
connection to the center post?
Holger

--- In hex-beam@yahoogroups.com, "Eric S. Johansson" <esj@h...> wrote:
> I have been playing around with building a portable version of the
hex
> beam. One thing I'm puzzled by is how to measure where the wires
attach
> to the spars. I've followed the guidelines for attachment points
on the
> center post as specified by dl7io but I am puzzled as to where to
attach
> the element wires on the spars.
>
> ---eric

2116. Re: new model files

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-22 20:53:20 UTC
From: dl7io
Topic: 2107 Message: 2116

Hello,
I have added the pdf files with the results of EZNEC to my website.
This might be interesting for those who have no EZNEC.
Holger

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> I need to correct myself. The feeding is of course not at the 20m
> element but on the element with the highest frequency or the bottom
> installed element in the mechanical design.
> Sorry for confusing, Holger
>
> --- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
> > Hello,
> > I have uploaded a few new EZNEC files to my webpage with models
for
> > bottom feeded beams for 20/17m, 20/17/15m and 20/17/15/12m.
> > Feeding is always at the 20m element and not from top.
> > http://www.dl7io.de
> > best regards Holger

2117. spars

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-23 16:59:47 UTC
From: Eric S. Johansson
Topic: 2117 Message: 2117

hex-beam@yahoogroups.com wrote:
> Message: 1
> Date: Wed, 22 Sep 2004 20:50:19 -0000
> From: "dl7io" <dl7io@...>
> Subject: Re: fixing antenna elements to spars
>
> Hello Eric,
> what are "spars"? Is it the insulator at the element end or the
> connection to the center post?

I am probably using the wrong terms again. The 6 long flexible radial elements that we attach the antenna wires to. Maybe a better term would be ribs.

looked up the definition of spar and found a couple of interesting ones:

A member of the women's reserve of the U.S. Coast Guard, disbanded as a separate unit in 1946.

A nonmetallic, readily cleavable, translucent or transparent light-colored mineral with a shiny luster, such as feldspar.

Archaic. To fasten with a bolt. [Middle English sparre, rafter.]

and not quite right but closest: Nautical. A wooden or metal pole, such as a boom, yard, or bowsprit, used to support sails and rigging.

also, is there any reason why most implementations run the wire through an insulator on the front of this rib/spar and not around the back?

---eric

2118. Re: [hex-beam] spars

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-24 18:53:04 UTC
From: humberto gonzalez
Topic: 2117 Message: 2118

That you known like spars here is known like spreaders
and in reference of your question i thing is because
is more easy the atachment, but i think this don?t be
an important effect.
--- "Eric S. Johansson" <esj@...> escribi?:

---
hex-beam@yahoogroups.com wrote:
> Message: 1
> Date: Wed, 22 Sep 2004 20:50:19 -0000
> From: "dl7io" <dl7io@...>
> Subject: Re: fixing antenna elements to spars
>
> Hello Eric,
> what are "spars"? Is it the insulator at the element
end or the
> connection to the center post?

I am probably using the wrong terms again. The 6 long
flexible radial
elements that we attach the antenna wires to. Maybe a
better term would
be ribs.

looked up the definition of spar and found a couple of
interesting ones:

A member of the women's reserve of the U.S. Coast
Guard, disbanded as a
separate unit in 1946.

A nonmetallic, readily cleavable, translucent or
transparent
light-colored mineral with a shiny luster, such as
feldspar.

Archaic. To fasten with a bolt. [Middle English
sparre, rafter.]

and not quite right but closest: Nautical. A wooden
or metal pole, such
as a boom, yard, or bowsprit, used to support sails
and rigging.

also, is there any reason why most implementations run
the wire through
an insulator on the front of this rib/spar and not

around the back?

---eric

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2119. HX5Bi Performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-24 19:07:39 UTC
From: NA1A
Topic: 2119 Message: 2119

HX5Bi antenna at 45 ft performs equally as good as the Lightning Bolt 2 element 5 bander cubical quad at 50ft with 100 watts. Both antennas are on Tri-Ex W51 crank-up free standing tower.
Several tests were conducted and various reports were obtained from distance stations, all confirmed equal signal strength from both antennas.
NA1A

2120. Re: [hex-beam] HX5Bi Performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-24 19:37:16 UTC
From: john labutski
Topic: 2119 Message: 2120

This situation only occurs at the flatest match of the hexbeam(very close to resonance). If you run tests going to each band edge, especially on 10,15 and 20 meters you will find received signal levels are about 1-2 s-units better on the quad. Its true that the distant station will give you very similar signal reports when above s-5, but this situation degrades rapidly as you approach s-1. With weak signals, the 2 element quad usually will out perform a hex-beam, most 2 and 3 element yagi's based on my experience when I lived in California. Don't get me wrong the Hex-beam is an excellent antenna, and probably the hands down selection when size is the major consideration.

John
----- Original Message -----
From: NA1A
To: hex-beam@yahoogroups.com
Sent: Friday, September 24, 2004 3:07 PM
Subject: [hex-beam] HX5Bi Performance

HX5Bi antenna at 45 ft performs equally as good as the Lightning Bolt 2 element 5 bander cubical quad at 50ft with 100 watts. Both antennas are on Tri-Ex W51 crank-up free standing tower.
Several tests were conducted and various reports were obtained from distance stations, all confirmed equal signal strength from both antennas.
NA1A

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[Non-text portions of this message have been removed]

2121. Re: HX5Bi Performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-25 03:45:36 UTC
From: w4wb
Topic: 2119 Message: 2121

John,

Can you kindly explain what you have stated? Hard to understand how the quad hears 6-12 dB better than the HB. Same comment on the "non-linear" performance on the tx side as heard by DX stations.

Tnx es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "john labutski" <kd6wd@c...> wrote:
> This situation only occurs at the flatest match of the hexbeam (very close to resonance). If you run tests going to each band edge, especially on 10,15 and 20 meters you will find received signal levels are about 1-2 s-units better on the quad. Its true that the distant station will give you very similar signal reports when above s-5, but this situation degrades rapidly as you approach s-1. With weak signals, the 2 element quad usually will out perform a hex-beam, most 2 and 3 element yagi's based on my experience when I lived in California. Don't get me wrong the Hex-beam is an excellent antenna, and probably the hands down selection when size is the major consideration.
>
> John
> ----- Original Message -----
> From: NA1A
> To: hex-beam@yahoogroups.com
> Sent: Friday, September 24, 2004 3:07 PM
> Subject: [hex-beam] HX5Bi Performance
>
>
>
> HX5Bi antenna at 45 ft performs equally as good as the Lightning Bolt 2 element 5 bander cubical quad at 50ft with 100 watts. Both antennas are on Tri-Ex W51 crank-up free standing tower.
> Several tests were conducted and various reports were obtained from distance stations, all confirmed equal signal strength from both antennas.
> NA1A
>
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> hex-beam-unsubscribe@yahoogroups.com
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>
>
>
> [Non-text portions of this message have been removed]

2122. Re: [hex-beam] Re: HX5Bi Performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-25 18:57:31 UTC
From: john labutski
Topic: 2119 Message: 2122

Its real simple. Ran tests simultaneously like you did. Primary testing was on 17 meters. Tests were nearly identical when switching between Orion, Pegasus and Jupiter. I simply used meter readings for my checks. On my moxon wire beam I had nearly identical results on 17 meters.

Get on 17 meters and work kv2aa Joe in St. Thomas with both antennas between 4:00 and 6:00 PM. He runs a lightning bolt 2 element and you can experience the fade characteristics your self between the two antennas. I stand by my test results in northern California. I haven't repeated these tests hear since the only thing I had up was the 17/15 meter moxon and the hurricane took that out.

John kd6wd/4

----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Friday, September 24, 2004 11:45 PM
Subject: [hex-beam] Re: HX5Bi Performance

John,

Can you kindly explain what you have stated? Hard to understand how the quad hears 6-12 dB better than the HB. Same comment on the "non-linear" performance on the tx side as heard by DX stations.

Tnx es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "john labutski" <kd6wd@c...> wrote:
> This situation only occurs at the flatest match of the hexbeam (very close to resonance). If you run tests going to each band edge, especially on 10,15 and 20 meters you will find received signal levels are about 1-2 s-units better on the quad. Its true that the distant station will give you very similar signal reports when above s-5, but this situation degrades rapidly as you approach s-1. With weak signals, the 2 element quad usually will out perform a hex-beam, most 2 and 3 element yagi's based on my experience when I lived in California. Don't get me wrong the Hex-beam is an excellent antenna, and probably the hands down selection when size is the major consideration.
>
> John
> ----- Original Message -----
> From: NA1A
> To: hex-beam@yahoogroups.com
> Sent: Friday, September 24, 2004 3:07 PM
> Subject: [hex-beam] HX5Bi Performance

>
>
>
> HX5Bi antenna at 45 ft performs equally as good as the Lightning
Bolt 2 element 5 bander cubical quad at 50ft with 100 watts. Both
antennas are on Tri-Ex W51 crank-up free standing tower.
> Several tests were conducted and various reports were obtained
from distance stations, all confirmed equal signal strength from both
antennas.
> NA1A
>
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>
>
> ---

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[Non-text portions of this message have been removed]

2123. New Boy

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-25 08:22:43 UTC
From: m0cke
Topic: 2123 Message: 2123

Hi all,

I've been looking back through the archives for a week or so and I'm really interested in building a Hex Beam, so I've started to try and source some materials here in the UK.

The beam will be used at my home QTH only so I guess building it from Fishing Poles will be OK.

I've found the following here in the UK

http://www.tackleshop.co.uk/ProductDetails/mcs/productID/1161/groupID/18/categoryID/152/v/5c0ec454-d6e4-433f-b883-11dfaa1adfc7

http://g4hzj.homestead.com/LocationEA5G4HZJ.html

Both list 4m fibre glass poles for a good price, but when I spoke to one of my local fishing tackle shops they told me that most fibreglass poles actually have some carbon fibre in them now days, if this is true how do I know which are good for the Hex Beam?

I've downloaded most of the files from the Files area and I'm looking forward to building my first Hex which will be a 5 band.

One problem I do have is my tower already has some antennas on which I want to keep, so it looks like I may have to try the offset mounting approach to see what happens!

Any comments or help with building techniques welcome

Regards,

Jim M0CKE

2124. more spreader questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-09-30 20:15:03 UTC
From: Eric S. Johansson
Topic: 2124 Message: 2124

how do you figure out where to attach antenna elements on a spar. is it always where ever the midpoint on that half of the W would reach? the spreadsheet of the 10-30m gave some indications but the inter element feed point looked different from the 10-20m pdf description which would affect the spreader attachment point.

---eric

2125. I seek dimensions.....

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-02 15:15:12 UTC
From: f5sjf
Topic: 2125 Message: 2125

Hello, I seek dimensions of the hexagonal support of the tubes. I want to carry out a hexbeam 5 bands like that of dl7io. Thank you

2126. Dimensions of the hub

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-02 16:51:42 UTC
From: f5sjf
Topic: 2126 Message: 2126

Please Can you give me the dimensions of the hub for buil an hexbeam
5 bands (20m to 10 m. Thank you very much.

2127. Re: I seek dimensions.....

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-03 00:38:29 UTC
From: gerry_schjelderup
Topic: 2125 Message: 2127

--- In hex-beam@yahoogroups.com, "f5sjf" <f5sjf@l...> wrote:
>
>
> Hello, I seek dimensions of the hexagonal support of the tubes. I
> want to carry out a hexbeam 5 bands like that of dl7io. Thank you

I am also starting to build a 5 band hex beam and have downloaded
the info from dl7io's web site.
http://www.dl7io.de/reflectedw/reflectedw_data.html
If you have also done that you may notice that he gives no info in
regard to the hub size, probably because it is not crucial as are
other specs. I have made mine 12" across measured from 'point to
point' of 1/4" aluminum. That gives you about 5 inches of surface to
mount the spreaders when butted up against the center pole.
I am now wrestling with the practical means of determining
positions to fasten elements to the spreaders in such a way to keep
the antenna symetrical. This is not a project that one wants to rush
if you want to get it right!
Good luck and let me know how you are progressing.
Gerry KC0MSX

2128. Re: [hex-beam] Dimensions of the hub

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-03 05:50:35 UTC
From: Darren G0TSM
Topic: 2126 Message: 2128

I made my hub from a piece of 300mm x 500mm x 6mm aluminium plate. So on mine, from one flat side across to the opposite flat side would be 300mm.

Darren

At 16:51 02/10/2004, you wrote:

>Please Can you give me the dimensions of the hub for buil an hexbeam
>5 bands (20m to 10 m. Thank you very much.
>
>
>
>
>

[Non-text portions of this message have been removed]

2129. Single band hex dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-05 11:53:18 UTC
From: W1GQL
Topic: 2129 Message: 2129

In Holger's Excel file "reflected-single-band-koordinaten.xls" he says that the single band demensions for 18.068 are 440 and 427.

The 440 number agrees with the formlua 6262/f found elsewhere in the group files. (When converted from metric to inches.)

The 427 number does NOT agree with the formula 6180/f

To get 427 the formula would have to be 6075/f

I am confused. Can you help me?

Dave W1GQL

PS: Thanks, Holger, for the wonderful work you have done to help Hex Homebrewers. I have a homebrew 20 meter hex that I made using cut-and-try. It is the best antenna I have had in 50 years of hamming.

2130. Getting Parts Together & Center Post

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-08 07:32:58 UTC
From: Jim Balls
Topic: 2130 Message: 2130

Hi all,

I'm getting all the parts together to build a 5 band Hex Beam.

So far I have

100m 14swg Flexweave
6 x 4m Shakspeare Spearlite 1056-400 Telescopic Poles
12 x 1.75" V Clamps
A 1" Dia Aluminium pole which I will cut in 6" Sections and slice in half
to fit over the Pole to spread out the clamp load
Lots of small Jubilee clips
Some Plastic hose in different sizes
3mm Brass Screws / nuts / washers
Twin lighting cable (maybe try this for the feed lines)
a length of 50mm Grey PVC pipe .. ????
600mm Square of 18mm Eastern Ply (OK for outdoors) which I will cut a 16"
Hex Shape from.
200m 3mm Nylon Lacing Cord

Various other bits of hardware laying around.

OK I think I have enough bits.

Now for some questions.

Will the 50mm PVC pipe be ok for the center post, the outer diameter is
60mm, will this affect the antenna as I see most people use 50mm OD?

Can I fit a SO239 in the bottom of the center post, use coax inside the
pipe to the top and then feed down from the 20M element using twin lighting
cable (I've heard of this being used in the past as a good 75 Ohm feeder).

Once I have the spreaders attached, center post in etc what is then the
procedure for cutting / attaching the elements?

Thanks for any help and advice in this fun project.

Regards,

Jim M0CKE

2131. Re: [hex-beam] Getting Parts Together & Center Post

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-09 11:04:19 UTC
From: Darren G0TSM
Topic: 2130 Message: 2131

At 07:32 08/10/2004, Jim wrote:

>Hi all,
>
>I'm getting all the parts together to build a 5 band Hex Beam.
>
>So far I have
>
>100m 14swg Flexweave

Is this bare flex weave or insulated?, I've run into problems using insulated wire due to the calculated velocity factor of the wire being different to the actual value. If you are using insulated make sure you either strip off the jacket or get the true velocity factor of the wire.

>6 x 4m Shakspeare Spearlite 1056-400 Telescopic Poles
>12 x 1.75" V Clamps
>A 1" Dia Aluminium pole which I will cut in 6" Sections and slice in half
>to fit over the Pole to spread out the clamp load
>Lots of small Jubilee clips
>Some Plastic hose in different sizes
>3mm Brass Screws / nuts / washers
>Twin lighting cable (maybe try this for the feed lines)
>a length of 50mm Grey PVC pipe .. ????
>600mm Square of 18mm Eastern Ply (OK for outdoors) which I will cut a 16"
>Hex Shape from.
>200m 3mm Nylon Lacing Cord
>
>Various other bits of hardware laying around.
>
>OK I think I have enough bits.
>
>Now for some questions.
>
>Will the 50mm PVC pipe be ok for the center post, the outer diameter is
>60mm, will this affect the antenna as I see most people use 50mm OD?

My center post is 40mm grp tube, this slides down into my stub mast which is 2" aluminium scaffold tube, my hub is clamped to the top of the stub mast. I don't think going to 60mm will make much difference.

>Can I fit a SO239 in the bottom of the center post, use coax inside the
>pipe to the top and then feed down from the 20M element using twin lighting
>cable (I've heard of this being used in the past as a good 75 Ohm feeder).

I think you would probably best trying to avoid using a feeder which you know is higher than 50-ohms. Adding a 75-ohm blip on a feed line will no doubt change the SWR a little on one band or another.

>Once I have the spreaders attached, center post in etc what is then the
>procedure for cutting / attaching the elements?

I've used 300mm zip ties wrapped around twice, these allowed me to move the wires around before 'zipping' up tightly.

>Thanks for any help and advice in this fun project.

Darren Collins G0TSM
Southampton UK
SysOp GB7EDX DX Cluster
telnet://gb7edx.com
Local RF access 144.900MHz

[Non-text portions of this message have been removed]

2132. Re: Getting Parts Together & Center Post

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-09 19:10:53 UTC
From: m0cke
Topic: 2130 Message: 2132

Hi Darren & all,

Thanks for the replys,

The Flexweave is not insulated so it should be OK, got it from
Nevada at Leicester Rally.

Could you explain in a bit more detail how you are holding the wires
to the spreader please?

I've started with the 20M wires and actually got those fitted today
using Jubilee clips, 2 cable ties, a piece of 6mm clear tubing which
has a piece of the fiberglass pole end inserted as per DL0EI's PDF
file. but i'm finding the Jubilee Clips are a little harsh on the
fiberglass spreaders before they are tight enough.

I did try the 20M before putting any more elements on and I was
hearing some signals with the base of the antenna on a dustbin,
I did try the FT817 on transmitt and the swr seemed to be OK right
at the bottom of the band, creeping up through to 450.

Is anyone using the Hexbeamcalcv3 to calculated there antenna as
this is what I have used to center the frequencies where I want them.

Also do I need to wind a Coax Choke if so what diameter do you
recomend

Thanks again and I look forward to finishing the antenna and getting
it in the air at 45'

Regards,

Jim M0CKE

--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
>
> At 07:32 08/10/2004, Jim wrote:
>
> >Hi all,
> >
> >I'm getting all the parts together to build a 5 band Hex Beam.
> >
> >So far I have
> >
> >100m 14swg Flexweave
>
> Is this bare flex weave or insulated?, I've run into problems
using

> insulated wire due to the calculated velocity factor of the wire
being
> different to the actual value. If you are using insulated make
sure you
> either strip off the jacket or get the true velocity factor of the
wire.
>
> >6 x 4m Shakspeare Spearlite 1056-400 Telescopic Poles
> >12 x 1.75" V Clamps
> >A 1" Dia Aluminium pole which I will cut in 6" Sections and slice
in half
> >to fit over the Pole to spread out the clamp load
> >Lots of small Jubilee clips
> >Some Plastic hose in different sizes
> >3mm Brass Screws / nuts / washers
> >Twin lighting cable (maybe try this for the feed lines)
> >a length of 50mm Grey PVC pipe .. ????
> >600mm Square of 18mm Eastern Ply (OK for outdoors) which I will
cut a 16"
> >Hex Shape from.
> >200m 3mm Nylon Lacing Cord
> >
> >Various other bits of hardware laying around.
> >
> >OK I think I have enough bits.
> >
> >Now for some questions.
> >
> >Will the 50mm PVC pipe be ok for the center post, the outer
diameter is
> >60mm, will this affect the antenna as I see most people use 50mm
OD?
>
> My center post is 40mm grp tube, this slides down into my stub
mast which
> is 2" aluminium scaffold tube, my hub is clamped to the top of the
stub
> mast. I don't think going to 60mm will make much difference.
>
> >Can I fit a SO239 in the bottom of the center post, use coax
inside the
> >pipe to the top and then feed down from the 20M element using
twin lighting
> >cable (I've heard of this being used in the past as a good 75 Ohm
feeder).
>
> I think you would probably best trying to avoid using a feeder
which you
> know is higher than 50-ohms. Adding a 75-ohm blip on a feed line
will no

> doubt change the SWR a little on one band or another.
>
> >Once I have the spreaders attached, center post in etc what is
then the
> >procedure for cutting / attaching the elements?
>
> I've used 300mm zip ties wrapped around twice, these allowed me to
move the
> wires around before 'zipping' up tightly.
>
>
> >Thanks for any help and advice in this fun project.
>
>
>
>
>
> Darren Collins G0TSM
> Southampton UK
> SysOp GB7EDX DX Cluster
> telnet://gb7edx.com
> Local RF access 144.900MHz
>
> [Non-text portions of this message have been removed]

2133. Re: [hex-beam] Getting Parts Together & Center Post

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-09 19:08:38 UTC
From: Elmqvist Lars
Topic: 2130 Message: 2133

Hello
Just a question.
I have looked into the Shakespear telescopic poles.
They are made of composite. Does that include carbon and does that affect the antenna?
Would it be better with something out of fibreglass or does it not matter?
Lars SM4WGB
----- Ursprungligt meddelande -----
Från: Jim Balls
Till: hex-beam@yahoogroups.com
Skickat: den 8 oktober 2004 09:32
Ämne: [hex-beam] Getting Parts Together & Center Post

Hi all,

I'm getting all the parts together to build a 5 band Hex Beam.

So far I have

100m 14swg Flexweave
6 x 4m Shakspeare Spearlite 1056-400 Telescopic Poles
12 x 1.75" V Clamps
A 1" Dia Aluminium pole which I will cut in 6" Sections and slice in half
to fit over the Pole to spread out the clamp load
Lots of small Jubilee clips
Some Plastic hose in different sizes
3mm Brass Screws / nuts / washers
Twin lighting cable (maybe try this for the feed lines)
a length of 50mm Grey PVC pipe .. ????
600mm Square of 18mm Eastern Ply (OK for outdoors) which I will cut a 16"
Hex Shape from.
200m 3mm Nylon Lacing Cord

Various other bits of hardware laying around.

OK I think I have enough bits.

Now for some questions.

Will the 50mm PVC pipe be ok for the center post, the outer diameter is
60mm, will this affect the antenna as I see most people use 50mm OD?

Can I fit a SO239 in the bottom of the center post, use coax inside the
pipe to the top and then feed down from the 20M element using twin lighting
cable (I've heard of this being used in the past as a good 75 Ohm feeder).

Once I have the spreaders attached, center post in etc what is then the
procedure for cutting / attaching the elements?

Thanks for any help and advice in this fun project.

Regards,

Jim M0CKE

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2134. What do you use?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-10 16:57:45 UTC
From: m0cke
Topic: 2134 Message: 2134

Hi all,

I'm not to happy with the spreader clamping on my Hexbeam project, at present I'm using 4m fishing poles with a piece of half round aluminium around the top half of the pole then using 2 off 1.75" clamps I gently tighten the poles to the center hub but with very little tightening of the clamps I can hear the fiberglass start to pop.

Do I just lightly clamp using lock nuts of do I try and find something about 6" long to put up the inside of the spreader poles, this I have tried but yet to find anything as the poles are slightly tapered, a 1" wooden brush handle is too large.

Any ideas?

Also has anyone used the Hexbeamcalculator v3 from the files area, if so does it perform OK?

Thanks

Jim M0CKE

2135. Re: What do you use?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-10 17:57:42 UTC
From: gerry_schjelderup
Topic: 2134 Message: 2135

Jim,
I understand that in using hose clamps to make the attachments of the elements to the spreaders that there is a danger of breaking the fishing poles when tightened down. The same might be the case for attaching the spreaders to the hub with u-bolts. I am placing wood dowel material inside in both situations. It was quite a slow process though as I turned my dowels on the turning lathe with a slight taper and made to fit at predetermined postions on the spreader. I made the dowels about 5 inches long so I had a little flexibility when finally attaching the hose clamps in their respective positions. Also, one needs to start inserting these protective dowels at the small end section and insert it into the next larger size of the pole before treating that larger section with dowels. If your concern is to only protect the pole at the hub that should be quite easy. Although I custom-turned mine, I found that a standard size dowel came close to filling the void. One could wrap a few turns of masking tape on an undersized dowel to do the job. (Incidentally, I also inserted a small strip of sheet aluminum between the u-bolts and the fishing pole for additional protection from crushing the the fiberglass at the hub.) Good luck with your hex beam project!
Gerry KC0MSX

--- In hex-beam@yahoogroups.com, "m0cke" <m0cke@b...> wrote:
>
> Hi all,
>
> I'm not to happy with the spreader clamping on my Hexbeam project,
> at present I'm using 4m fishing poles with a piece of half round
> aluminium around the top half of the pole then using 2 off 1.75"
> clamps I gently tighten the poles to the center hub but with very
> little tightening of the clamps I can hear the fiberglass start to
> pop.
>
> Do I just lightly clamp using lock nuts of do I try and find
> something about 6" long to put up the inside of the spreader poles,
> this I have tried but yet to find anything as the poles are
slightly
> tapered, a 1" wooden brush handle is too large.
>
> Any ideas?
>
> Also has anyone used the Hexbeamcalculator v3 from the files area,
> if so does it perform OK?
>
>

> Thanks
>
> Jim M0CKE

2136. New to this beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-13 18:29:53 UTC
From: m0bsw
Topic: 2136 Message: 2136

Hello Group,
Jim has gt me interested in the hex beam any advice would be helpful
Paul
M0BSW

2137. Impedance & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-16 18:32:45 UTC
From: m0cke
Topic: 2137 Message: 2137

Hi all,

I've just built a 5 Band Reflected W for use at the main station here. The beam is up at about 45' When I test the beam with a MFJ 259 i get the following results, these are the lowest dips in SWR

20M - 14.205 Mhz R=56 X=14 SWR 1.3
17M - 18.112 Mhz R=25 X=9 SWR 2.0
15M - 21.100 Mhz R=24 X=5 SWR 2.1
12M - 24.861 Mhz R=100 X=41 SWR 2.5
10M - 28.285 Mhz R=50 X=50 SWR 2.5

Any ideas why the impedance is out on all the bands except 20M?

I'm feeding the antenna with a short length of Mini RG8 (connected to the main RG213 feed)which has a coax choke of 6 turns 4" diameter at the base of the antenna, I'm feeding at the top and using 10A DC cable (black & red figure 8) for the feedlines.

Could it be the feedlines are not of a heavy gauge?

I have taken care with the Driver / Reflector tip spacings and they are within a couple of MM.

The antenna was built using the spreadsheet V3 from the files area, I did note that the elements were longer on most bands except 20M in comparison with the DL7IO PDF file.

Thanks for any help

Regards,

Jim M0CKE

2138. Re: [hex-beam] Impedance & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-16 19:41:06 UTC
From: john labutski
Topic: 2137 Message: 2138

Please post your driven element lengths for each band. This will allow some of us to compare our hex beams to yours. Also, please advise us of wire size, material, and if it is insulated or not. The other item is the type of spreader you are using. Is it polyester fiberglass pultrusion or a graphite fishing pole. The carbon graphites tend to affect the higher frequencies more. Also, I have had much better results with ferrite choke type baluns made up off a string of ferrites on the feedline coax OD. Palomar Engineers has a nice setup for about $8.00 US

John
----- Original Message -----
From: m0cke
To: hex-beam@yahoogroups.com
Sent: Saturday, October 16, 2004 2:32 PM
Subject: [hex-beam] Impedance & SWR

Hi all,

I've just built a 5 Band Reflected W for use at the main station here. The beam is up at about 45' When I test the beam with a MFJ 259 i get the following results, these are the lowest dips in SWR

20M - 14.205 Mhz R=56 X=14 SWR 1.3
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12M - 24.861 Mhz R=100 X=41 SWR 2.5
10M - 28.285 Mhz R=50 X=50 SWR 2.5

Any ideas why the impedance is out on all the bands except 20M?

I'm feeding the antenna with a short length of Mini RG8 (connected to the main RG213 feed)which has a coax choke of 6 turns 4" diameter at the base of the antenna, I'm feeding at the top and using 10A DC cable (black & red figure 8) for the feedlines.

Could it be the feedlines are not of a heavy gauge?

I have taken care with the Driver / Reflector tip spacings and they are within a couple of MM.

The antenna was built using the spreadsheet V3 from the files area, I did note that the elements were longer on most bands except 20M in comparison with the DL7IO PDF file.

Thanks for any help

Regards,

Jim M0CKE

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[Non-text portions of this message have been removed]

2139. Re: [hex-beam] Impedance & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-16 22:42:49 UTC
From: Darren G0TSM
Topic: 2137 Message: 2139

One of the UK retailers (cant remember which one) said that the red/black cable which is used for rig power leads is approx 85-Ohm. I use 6mm cable for my feed line between the elements.

At 19:41 16/10/2004, you wrote:
>Please post your driven element lengths for each band. This will allow
>some of us to compare our hex beams to yours. Also, please advise us of
>wire size, material, and if it is insulated or not. The other item is the
>type of spreader you are using. Is it polyester fiberglass pultrusion or
>a graphite fishing pole. The carbon graphites tend to affect the higher
>frequencies more. Also, I have had much better results with ferrite choke
>type baluns made up off a string of ferrites on the feedline coax OD.
>Palomar Engineers has a nice setup for about $8.00 US
>
>John
> ----- Original Message -----
> From: m0cke
> To: hex-beam@yahoogroups.com
> Sent: Saturday, October 16, 2004 2:32 PM
> Subject: [hex-beam] Impedance & SWR
>
>
>
> Hi all,
>
> I've just built a 5 Band Reflected W for use at the main station here.
> The beam is up at about 45' When I test the beam with a MFJ 259 i get
> the following results, these are the lowest dips in SWR
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> Regards,
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[Non-text portions of this message have been removed]

2140. Re: Impedance & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-17 07:06:26 UTC
From: m0cke
Topic: 2137 Message: 2140

Hi John / all

Thanks for the reply,

OK the spreaders are Shakespeare Spear-Lite 1056-400 telescopic poles, so I guess they must me Carbon Graphite although at the price of £2.99 I thought they would have been fibreglass. I've just looked on the Shakespeare.nl website and for construction material it just states Mixed.

The center pole is grey PVC and the OD is 60mm

The feed is spaced as per DL7IO's PDF file, distance between the Hot & Cold connections is 1.5" measured around the circumferance of the center pole

The band feeding wire is outside the pole and each wire is 28/0.2mm CSA is only 0.79mm .. I can now see that I need to change this for at least 4mm.

Element connection screws are 3mm Brass 25mm

Element wire is 14 Gauge Flexweave un-insulated

Element lenghts, Spacings are:-

Frequency (Mhz) 28 Inches half length
Driven Element Length 216.84 108.42
Reflector Length 220.42 110.21
Driven Element Spacing 3.58
Reflector Spacing 2.28
Over All element spacing 5.09
Spreader length 54.21

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Driven Element Length 248.19 124.1
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I hope the above comes out OK on your email / browser.

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I'm interested in the ferrite choke type balun, Is there a reference for this type of balun and any idea where in the UK i can get the ferrites?

Thanks for any comments / help.

73's

Jim M0CKE

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> Please post your driven element lengths for each band. This will allow some of us to compare our hex beams to yours. Also, please advise us of wire size, material, and if it is insulated or not. The other item is the type of spreader you are using. Is it polyester fiberglass pultrusion or a graphite fishing pole. The carbon graphites tend to affect the higher frequencies more. Also, I have had much better results with ferrite choke type baluns made up off a string of ferrites on the feedline coax OD. Palomar Engineers has a nice setup for about $8.00 US
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> John
> ----- Original Message -----
> From: m0cke
> To: hex-beam@yahoogroups.com
> Sent: Saturday, October 16, 2004 2:32 PM
> Subject: [hex-beam] Impedance & SWR
>

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> [Non-text portions of this message have been removed]

2141. Re: Impedance & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-17 07:11:11 UTC
From: m0cke
Topic: 2137 Message: 2141

Hi Darren / All

What 6mm cable did you use, did you strip out some Twin / Earth (6242Y) or did you use Conduit Wire, something like 6491X or was it something else?

Thanks,

Jim M0CKE

--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
> One of the UK retailers (cant remember which one) said that the red/black
> cable which is used for rig power leads is approx 85-Ohm. I use 6mm cable
> for my feed line between the elements.
>
> At 19:41 16/10/2004, you wrote:
> >Please post your driven element lengths for each band. This will allow
> >some of us to compare our hex beams to yours. Also, please advise us of
> >wire size, material, and if it is insulated or not. The other item is the
> >type of spreader you are using. Is it polyester fiberglass pultrusion or
> >a graphite fishing pole. The carbon graphites tend to affect the higher
> >frequencies more. Also, I have had much better results with ferrite choke
> >type baluns made up off a string of ferrites on the feedline coax OD.
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> >John
> > ----- Original Message -----
> > From: m0cke
> > To: hex-beam@yahoogroups.com
> > Sent: Saturday, October 16, 2004 2:32 PM
> > Subject: [hex-beam] Impedance & SWR
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> [Non-text portions of this message have been removed]

2142. Re: [hex-beam] Re: Impedance & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-17 09:22:38 UTC
From: Darren G0TSM
Topic: 2137 Message: 2142

At 07:11 17/10/2004, you wrote:

>Hi Darren / All
>
>What 6mm cable did you use, did you strip out some Twin / Earth
>(6242Y) or did you use Conduit Wire,

Yes 6mm conduit wire, I stripped back the insulation where the elements connect then soldered the elements to the feed line and then re-insulated the joints with self amalgamating tape. The whole assembly was then zip tied together and then zip tied to the main support. I love zip ties!

>something like 6491X or was it
>something else?
>
>Thanks,

[Non-text portions of this message have been removed]

2143. Re: [hex-beam] Re: Impedance & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-17 17:04:10 UTC
From: john labutski
Topic: 2137 Message: 2143

The choke balun should be made of type 43 mix ferrite toroids with an inside diameter that matches your coax I.D. Use about seven or 8 of them. They usually come with an I.D. of about .250 or .500. Just bunch them together on the coax and use heat shrink tubing to hold them. The most economical place is to get them here in the states is palomar-engineers.com. I am sure these toroids are available all over europe.

I am still digesting your setup so it will take me a few days to figure out what you have at your qth.
----- Original Message -----
From: m0cke
To: hex-beam@yahoogroups.com
Sent: Sunday, October 17, 2004 3:06 AM
Subject: [hex-beam] Re: Impedance & SWR

Hi John / all

Thanks for the reply,

OK the spreaders are Shakespeare Spear-Lite 1056-400 telescopic poles, so I guess they must me Carbon Graphite although at the price of £2.99 I thought they would have been fibreglass. I've just looked on the Shakespeare.nl website and for construction material it just states Mixed.

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Driven Element Length 248.19 124.1
Reflector Length 252.29 126.14
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Over All element spacing 5.82
Spreader length 62.05

Frequency (Mhz) 21 Inches half length
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Reflector Length 295.62 147.81
Driven Element Spacing 4.8
Reflector Spacing 3.06
Over All element spacing 6.82
Spreader length 72.71

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Reflector Length 347.07 173.54
Driven Element Spacing 5.64
Reflector Spacing 3.59
Over All element spacing 8.01
Spreader length 85.36

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Thanks for any comments / help.

73's

Jim M0CKE

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[Non-text portions of this message have been removed]

2144. Re: [hex-beam] Re: Impedance & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-17 17:47:23 UTC
From: john labutski
Topic: 2137 Message: 2144

Error in my last email. I should have said the O.D. of the coax should match approximately the I.D. of the toroid. In other words 1/2 inch OD coax including insulation gets put thru a toroid with a 1/2 inch ID. Guess I will have to start proof reading my emails.

John
----- Original Message -----
From: john labutski
To: hex-beam@yahoogroups.com
Sent: Sunday, October 17, 2004 1:04 PM
Subject: Re: [hex-beam] Re: Impedance & SWR

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[Non-text portions of this message have been removed]

2145. Hex Pac Portable at Jamboree on the Air

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-18 16:44:43 UTC
From: sx88ht20
Topic: 2145 Message: 2145

Another happy ham outing with the Hex-Pac portable! Troop 204 / Pack 702 in Marietta, Georgia, hosted a Jamboree-on-the-Air activity last Saturday. We set up the antenna with the 20m element on the roof of one of the classrooms at church (about 45 feet in the air), with a second antenna (dipole) for 40 meters. Rigs used were Mark-V and FT897.

We had a terrific signal on the air for the entire day. Many stations commented on how strong our signal was. Over 80 people attended our JOTA event, with a few of the Boy Scouts and parents taking an interest in getting their ham ticket. It is so important to have a good signal when operating for guests or a demonstration. I have used the portable Hex-Beam over and over and been very pleased with the results.

73 de W4JO

2146. Re: Impedance & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-19 05:36:56 UTC
From: m0cke
Topic: 2137 Message: 2146

Hi John / all

Thanks for the info on the Choke Balun, as of yet I still cannot find the beads in the correct mix here in the UK, I've tried searching the net with no luck, Maybe I need to fin d a company that will ship to he UK from the US.

Thanks for looking through my antenna details, It's certainly working as I' getting some good reports, This weekend I intend to remove it from the tower and replace the feed lines, I have now made up some parallel lines with 10mm2 cable, i've stripped the insulation at the feedpoints by about 5mm and soldered on the connecting lugs at right angles to the lines, this should keep the lines together from top to bottom.

Also I'm using an offset mount, the main rotator stub pole is stainless steel and runs between the cold leg and reflector about 1' away from the center of the Reflected W.

Below the beam I have 4 Microwave beams, each 10' long from aluminium these are about 2' below the hex and on the top of the stub mast I have a tri-band vertical 6/2/70 and the radials are very close to the top of the hex.

I in ted to put in a longer stub mast to help to move the antenna apart.

Would you put the Microwave stuff above or below the Hex .. ?

Thanks,

Jim M0CKE

--- In hex-beam@yahoogroups.com, "john labutski" <kd6wd@c...> wrote:
> The choke balun should be made of type 43 mix ferrite toroids with an inside diameter that matches your coax I.D. Use about seven or 8 of them. They usually come with an I.D. of about .250 or .500. Just bunch them together on the coax and use heat shrink tubing to hold them. The most economical place is to get them here in the states is palomar-engineers.com. I am sure these toroids are available all over europe.
>
> I am still digesting your setup so it will take me a few days to figure out what you have at your qth.
> ----- Original Message -----
> From: m0cke
> To: hex-beam@yahoogroups.com

> Sent: Sunday, October 17, 2004 3:06 AM
> Subject: [hex-beam] Re: Impedance & SWR
>
>
>
> Hi John / all
>
> Thanks for the reply,
>
> OK the spreaders are Shakespeare Spear-Lite 1056-400 telescopic
> poles, so I guess they must me Carbon Graphite although at the
price
> of £2.99 I thought they would have been fibreglass. I've just
looked
> on the Shakespeare.nl website and for construction material it
just
> states Mixed.
>
> The center pole is grey PVC and the OD is 60mm
>
> The feed is spaced as per DL7IO's PDF file, distance between the
Hot
> & Cold connections is 1.5" measured around the circumferance of
the
> center pole
>
> The band feeding wire is outside the pole and each wire is
28/0.2mm
> CSA is only 0.79mm .. I can now see that I need to change this
for
> at least 4mm.
>
> Element connection screws are 3mm Brass 25mm
>
> Element wire is 14 Gauge Flexweave un-insulated
>
> Element lenghts, Spacings are:-
>
> Frequency (Mhz) 28 Inches half length
> Driven Element Length 216.84 108.42
> Reflector Length 220.42 110.21
> Driven Element Spacing 3.58
> Reflector Spacing 2.28
> Over All element spacing 5.09
> Spreader length 54.21
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> Frequency (Mhz) 24 Inches half length
> Driven Element Length 248.19 124.1
> Reflector Length 252.29 126.14
> Driven Element Spacing 4.1

> Reflector Spacing 2.61
> Over All element spacing 5.82
> Spreader length 62.05
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> Frequency (Mhz) 21 Inches half length
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> I have tried the antenna, it is better than anything I have at
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>
> I'm interested in the ferrite choke type balun, Is there a
reference
> for this type of balun and any idea where in the UK i can get
the
> ferrites?
>
> Thanks for any comments / help.
>
> 73's
>
> Jim M0CKE
>
> --- In hex-beam@yahoogroups.com, "john labutski" <kd6wd@c...>

wrote:
> > Please post your driven element lengths for each band. This
will
> allow some of us to compare our hex beams to yours. Also, please
> advise us of wire size, material, and if it is insulated or not.
The
> other item is the type of spreader you are using. Is it
polyester
> fiberglass pultrusion or a graphite fishing pole. The carbon
> graphites tend to affect the higher frequencies more. Also, I
have
> had much better results with ferrite choke type baluns made up
off a
> string of ferrites on the feedline coax OD. Palomar Engineers
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> nice setup for about $8.00 US
> >
> > John
> > ----- Original Message -----
> > From: m0cke
> > To: hex-beam@yahoogroups.com
> > Sent: Saturday, October 16, 2004 2:32 PM
> > Subject: [hex-beam] Impedance & SWR
> >
> >
> >
> > Hi all,
> >
> > I've just built a 5 Band Reflected W for use at the main
station
> here.
> > The beam is up at about 45' When I test the beam with a MFJ
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> i get
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> > 20M - 14.205 Mhz R=56 X=14 SWR 1.3
> > 17M - 18.112 Mhz R=25 X=9 SWR 2.0
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> >
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> > I'm feeding the antenna with a short length of Mini RG8
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> > Could it be the feedlines are not of a heavy gauge?
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> > I have taken care with the Driver / Reflector tip spacings
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> > The antenna was built using the spreadsheet V3 from the
files
> area, I
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> > comparison with the DL7IO PDF file.
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> > Thanks for any help
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> > Regards,
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2147. Re: [hex-beam] Re: Impedance & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-19 11:32:16 UTC
From: john labutski
Topic: 2137 Message: 2147

I think you solved your problem yourself. Two feet is insufficient separation for your microwave beams. Wire beams are much more sensitive to a mass greater than itself such as those beams. In my case I have a screened in pool enclosure with an aluminum support structure. This enclosure was about 3 feet too close to one of my wire beams (a tuneable moxon) experiment. It drove me nuts because rotation of the beam would affect the swrs. Moving the beam 3 feet further away from this structure made all the difference in the world. Since the hexbeam is very light, I would increase the distance between the hex and your microwave beams. Just calculate how much by looking at your angle of radiation for the hexbeam and provide an additional foot or two The further away from the planes of the hexbeam the better. The same goes for your radials for your vertical. I do not know how many radials you have but changing their physical position with respect to the elements of the hexbeam may allow you to keep them in the same height. If it was me, I would lower the hexbeam to 40 feet and raise the other antennas. Hexbeams work great even as low as 30 or 35 feet. Although if you run more than a couple of hundred watts, you may have rf problems with 30 feet on 20 meters.

John
----- Original Message -----
From: m0cke
To: hex-beam@yahoogroups.com
Sent: Tuesday, October 19, 2004 1:36 AM
Subject: [hex-beam] Re: Impedance & SWR

Hi John / all

Thanks for the info on the Choke Balun, as of yet I still cannot find the beads in the correct mix here in the UK, I've tried searching the net with no luck, Maybe I need to fin d a company that will ship to he UK from the US.

Thanks for looking through my antenna details, It's certainly working as I' getting some good reports, This weekend I intend to remove it from the tower and replace the feed lines, I have now made up some parallel lines with 10mm2 cable, i've stripped the insulation at the feedpoints by about 5mm and soldered on the connecting lugs at right angles to the lines, this should keep the lines together from top to bottom.

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I in ted to put in a longer stub mast to help to move the antenna
apart.

Would you put the Microwave stuff above or below the Hex .. ?

Thanks,

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> Sent: Sunday, October 17, 2004 3:06 AM
> Subject: [hex-beam] Re: Impedance & SWR
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10A DC
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> > Jim M0CKE
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[Non-text portions of this message have been removed]

2148. Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-19 22:00:06 UTC
From: kc5bez@netzero.com
Topic: 2148 Message: 2148

Hi all,
I've just discovered hex-beams and I want to build one of these antennas.
what are the formulas/spacings etc?
also, what materials are best with which to build a hex-beam?

thanks es 73 de Brett/KC5BEZ

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2149. Re: Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-20 01:40:15 UTC
From: w4wb
Topic: 2148 Message: 2149

Brett,

You can find your answers by reading the material contained in the Files section of this site.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "kc5bez@n..." <kc5bez@n...> wrote:
>
>
> Hi all,
> I've just discovered hex-beams and I want to build one of these antennas.
> what are the formulas/spacings etc?
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>
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2150. Re: Impedance & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-20 02:13:28 UTC
From: w4wb
Topic: 2137 Message: 2150

John,

Type 43 isn't the material of choice for the RF choke. Type 77 is far better. Type 31 is also an option, but its Curie temperature is much lower than the Type 77 (or 43). Yes, some companies sell the 43 material for this HF application, but they should know better.
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "john labutski" <kd6wd@c...> wrote:
> The choke balun should be made of type 43 mix ferrite toroids with an inside diameter that matches your coax I.D. Use about seven or 8 of them. They usually come with an I.D. of about .250 or .500. Just bunch them together on the coax and use heat shrink tubing to hold them. The most economical place is to get them here in the states is palomar-engineers.com. I am sure these toroids are available all over europe.
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> I am still digesting your setup so it will take me a few days to figure out what you have at your qth.

2151. Re: [hex-beam] Re: Impedance & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-20 14:57:00 UTC
From: john labutski
Topic: 2137 Message: 2151

Thanks for the input Barry. I will have to try type 77. The type 43 has always worked well for me. I must say,however, this old dog is always willing to learn new tricks. RF in the shack has always been a common problem among hams and your inputs are very welcome.

73's
John kd6wd
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Tuesday, October 19, 2004 10:13 PM
Subject: [hex-beam] Re: Impedance & SWR

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[Non-text portions of this message have been removed]

2152. Re: Impedance & SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-20 16:17:45 UTC
From: w4wb
Topic: 2137 Message: 2152

FB John. I use the Amidon FB-77-1024 beads and have found about 6 is
adequate. These slide over the RG-213 (0.5" I.D.).
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "john labutski" <kd6wd@c...> wrote:
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> ----- Original Message -----
> From: w4wb
> To: hex-beam@yahoogroups.com
> Sent: Tuesday, October 19, 2004 10:13 PM
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> --- In hex-beam@yahoogroups.com, "john labutski" <kd6wd@c...>
wrote:
> > The choke balun should be made of type 43 mix ferrite toroids
with
> an inside diameter that matches your coax I.D. Use about seven
or 8
> of them. They usually come with an I.D. of about .250 or .500.
Just
> bunch them together on the coax and use heat shrink tubing to
hold
> them. The most economical place is to get them here in the
states is

> palomar-engineers.com. I am sure these toroids are available all
over
> europe.
> >
> > I am still digesting your setup so it will take me a few days
to
> figure out what you have at your qth.
>
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>
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> ----------

> Yahoo! Groups Links
>
> a.. To visit your group on the web, go to:
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> hex-beam-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>
> [Non-text portions of this message have been removed]

2153. Feedline separation

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-23 16:00:29 UTC
From: gerry_schjelderup
Topic: 2153 Message: 2153

Hi all,
Help! I have begun assembling a 3 band hex beam for 20,17, and 10 meters. Have thus far only installed the 20m element. I am using insulated #14 stranded wire and have reduced element length by 6" from normal specs. But my swr readings are too high to corrected by element length adjustment. 3:1+ Is the feedline separation on the center pole a factor in influenceing my swr? Or can there be another factor making my swr readings so high?
Gerry KC0MSX

2154. Re: Feedline separation

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-23 19:42:34 UTC
From: dl7io
Topic: 2153 Message: 2154

Hello Gerry,
where did you take the dimensions for this version (20/17/10m)? Have you done some calculation for this 3 bands?
What are the dimensions you will use?
How are you feeding (at 10m or at 20m element)?
What are you using for the feeding line?

In multiband versions you have you install all wires. You will not have success installing one band trying to tune it. This will work but measuring with the second band installed you will have totally different results and will need other dimensions. And continueing with band No.3 you have to change all elements again.

You cannot use 5-band diemnsions and install it without 15/10m. It will not work properly.

Regarding the feeding line. It is a low impedance line. To get a low impedance you need the wires as close together as possible. The best is to fix them with cable strips (hope it's the right word). As more you separate the wires as higher the resistance of the feeding system will be. Remember a chicken leader has a couple of hundreds Ohm.

If you have any antenna model please let us know.

regards Holger, DL7IO

--- In hex-beam@yahoogroups.com, "gerry_schjelderup" <KC0MSX@a...>
wrote:
>
> Hi all,
> Help! I have begun assembling a 3 band hex beam for 20,17, and 10
> meters. Have thus far only installed the 20m element. I am using
> insulated #14 stranded wire and have reduced element length by 6"
> from normal specs. But my swr readings are too high to corrected by
> element length adjustment. 3:1+ Is the feedline separation on the
> center pole a factor in influenceing my swr? Or can there be
another
> factor making my swr readings so high?
> Gerry KC0MSX

2155. Re: Feedline separation

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-24 00:17:11 UTC
From: gerry_schjelderup
Topic: 2153 Message: 2155

Hello Holger!
Thanks much for the speedy response! I fear that I may have to start all over! I started with the intention of building the 5 band reflected W beam that I believe you had posted on the net. Unable to conveniently find bare wire, I elected to make the elements shorter on the basis of the suggestion 10 to 15 cm shorter. Assuming the 20 meter element at 217.32 would be reduced to 211.34, I came up with a ratio of change, .9725 and applied it to all element dimensions, and reducing the tip space also using the same ratio. It then was not until I had obtained my fishing poles for spreaders that it seemed the large spreader diameter near the hub resisted curving and would seem to have caused my lower band elements to be too close together that I then decided to do only 3 bands to allow more element separation between bands.
I apparently will need to start all over and have thus far only cut the 20 meter elements. I used a piece of RG8-M coax split open for the feedline, keeping the shield about 1-1/2" from the 'center' conductor. I know now that was a big mistake, but if the lines were brought close together would the RG8-M be adequate. It was the only coax available locally. Obviously I will need something better for coax to the radio. Incidentally, I am feeding the 20m element.
I would like to stick to my using insulated wire since I have it, but otherwise what is your best advice? I would go back to a 5 band version if I can make it work. Thanks much!
Gerry KC0MSX

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
>
> Hello Gerry,
> where did you take the dimensions for this version (20/17/10m)? Have
> you done some calculation for this 3 bands?
> What are the dimensions you will use?
> How are you feeding (at 10m or at 20m element)?
> What are you using for the feeding line?
>
> In multiband versions you have you install all wires. You will not
> have success installing one band trying to tune it. This will work
> but measuring with the second band installed you will have totally
> different results and will need other dimensions. And continueing
> with band No.3 you have to change all elements again.
>
> You cannot use 5-band diemnsions and install it without 15/10m. It
> will not work properly.
>

> Regarding the feeding line. It is a low impedance line. To get a
low
> impedance you need the wires as close together as possible. The
best
> is to fix them with cable strips (hope it's the right word). As
more
> you separate the wires as higher the resistance of the feeding
system
> will be. Remember a chicken leader has a couple of hundreds Ohm.
>
> If you have any antenna model please let us know.
>
> regards Holger, DL7IO
>
>
> --- In hex-beam@yahoogroups.com, "gerry_schjelderup" <KC0MSX@a...>
> wrote:
> >
> > Hi all,
> > Help! I have begun assembling a 3 band hex beam for 20,17, and
10
> > meters. Have thus far only installed the 20m element. I am using
> > insulated #14 stranded wire and have reduced element length by 6"
> > from normal specs. But my swr readings are too high to corrected
by
> > element length adjustment. 3:1+ Is the feedline separation on the
> > center pole a factor in influenceing my swr? Or can there be
> another
> > factor making my swr readings so high?
> > Gerry KC0MSX

2156. Re: [hex-beam] Re: Feedline separation

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-24 10:57:41 UTC
From: Darren G0TSM
Topic: 2153 Message: 2156

This goes back to insulated wires, PVC covered wires all seem to be different, they do not have the same insulation thickness and different additives are used to make them fire retardant, flexible etc.
There seems to be only one method of finding out how much to allow for the insulated jacket if you can't get the technical info from the wire manufacturer, you make up a dipole using insulated wire, say for 10m, you measure the impedance over the band using an analyser and then you strip the insulation, recheck the length incase you stretched the conductor while stripping , put the antenna back in exactly the same position and then see now much up the band the resonant frequency has shifted. It is then easy to work out your 'shortening factor'
By guessing the velocity factor of the wire you could be a little out, I guessed at 0.975 which seems to be what everyone uses for pvc wire but my 1.5mm(csa) wire with 0.7mm jacket comes out at 0.96, Not a lot in it but 1.5% is still enough to shift the resonant frequency of my hex by 400KHz on 28MHz.

To save a lot of headaches, use bare wire and if it still doesnt work blame Holger ;-)

Darren G0TSM

At 00:17 24/10/2004, you wrote:

>Hello Holger!
>Thanks much for the speedy response! I fear that I may have to start
>all over! I started with the intention of building the 5 band
>reflected W beam that I believe you had posted on the net. Unable to
>conveniently find bare wire, I elected to make the elements shorter
>on the basis of the suggestion 10 to 15 cm shorter. Assuming the 20
>meter element at 217.32 would be reduced to 211.34, I came up with a
>ratio of change, .9725 and applied it to all element dimensions, and
>reducing the tip space also using the same ratio. It then was not
>until I had obtained my fishing poles for spreaders that it seemed
>the large spreader diameter near the hub resisted curving and would
>seem to have caused my lower band elements to be too close together
>that I then decided to do only 3 bands to allow more element
>separation between bands.
> I apparently will need to start all over and have thus far only
>cut the 20 meter elements. I used a piece of RG8-M coax split open
>for the feedline, keeping the shield about 1-1/2" from the 'center'
>conductor. I know now that was a big mistake, but if the lines were
>brought close together would the RG8-M be adequate. It was the only
>coax available locally. Obviously I will need something better for
>coax to the radio. Incidentally, I am feeding the 20m element.
> I would like to stick to my using insulated wire since I have it,

>but otherwise what is your best advice? I would go back to a 5 band
>version if I can make it work. Thanks much!
>Gerry KC0MSX
>
>--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
> >
> > Hello Gerry,
> > where did you take the dimensions for this version (20/17/10m)?
>Have
> > you done some calculation for this 3 bands?
> > What are the dimensions you will use?
> > How are you feeding (at 10m or at 20m element)?
> > What are you using for the feeding line?
> >
> > In multiband versions you have you install all wires. You will not
> > have success installing one band trying to tune it. This will work
> > but measuring with the second band installed you will have totally
> > different results and will need other dimensions. And continueing
> > with band No.3 you have to change all elements again.
> >
> > You cannot use 5-band diemnsions and install it without 15/10m. It
> > will not work properly.
> >
> > Regarding the feeding line. It is a low impedance line. To get a
>low
> > impedance you need the wires as close together as possible. The
>best
> > is to fix them with cable strips (hope it's the right word). As
>more
> > you separate the wires as higher the resistance of the feeding
>system
> > will be. Remember a chicken leader has a couple of hundreds Ohm.
> >
> > If you have any antenna model please let us know.
> >
> > regards Holger, DL7IO
> >
> >
> > --- In hex-beam@yahoogroups.com, "gerry_schjelderup" <KC0MSX@a...>
> > wrote:
> > >
> > > Hi all,
> > > Help! I have begun assembling a 3 band hex beam for 20,17, and
>10
> > > meters. Have thus far only installed the 20m element. I am using
> > > insulated #14 stranded wire and have reduced element length by 6"
> > > from normal specs. But my swr readings are too high to corrected
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> > > element length adjustment. 3:1+ Is the feedline separation on the
> > > center pole a factor in influenceing my swr? Or can there be

> > another
> > > factor making my swr readings so high?
> > > Gerry KC0MSX
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>
> *
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> *
> <mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>hex-beam-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2157. vocabulary

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-24 18:02:51 UTC
From: W1GQL
Topic: 2157 Message: 2157

Holger, you really have me very curious! What is "Chicken leader"?
I never heard that one and I like it!!! I wonder if it might be
what we call "zip cord" here in the states?

Dave W1GQL
Proud owner of a wonderful homebrew 20/17 Hex that is the
best antenna I have had in 50 years of hamming!

2158. FAQ file

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-24 18:11:34 UTC
From: W1GQL
Topic: 2158 Message: 2158

I am visiting with my sister-in-law in Olympia Washington. She has a very fast cable connection to the web. Since I only have a 26.6 dial up connection at home in Maine, I have taken advantage of her fast connection to read all the group's postings since the beginning.

Having read them all in a couple days, I have noticed that a number of homebrew questions are repeated over and over. Very often the person asking the question is told to check the files sections for answers. I know from experience that digging through those files can be frustrating, since some of the files refer to multi-band versions of the hex and others to single band versions.

What I propose is that we create a FAQ (Frequently Asked Questions) file that we can refer people to. I would be happy to create such a file and maintain it. It's not that I know all the answers, but that I have time and am willing to ask people who do know how to answer them.

What do you think?

Dave W1GQL

2159. Re: [hex-beam] FAQ file

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-24 19:30:18 UTC
From: m0bsw
Topic: 2158 Message: 2159

what do ya mean 26.6 no one has that anymore, come on get broadband Hi HI
Paul
----- Original Message -----
From: "W1GQL" <w1gql@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, October 24, 2004 7:11 PM
Subject: [hex-beam] FAQ file

>
>
> I am visiting with my sister-in-law in Olympia Washington. She
> has a very fast cable connection to the web. Since I only have
> a 26.6 dial up connection at home in Maine, I have taken advantage of
> her fast connection to read all the group's postings since the
> beginning.
>
> Having read them all in a couple days, I have noticed that a number
> of homebrew questions are repeated over and over. Very often the
> person asking the question is told to check the files sections for
> answers. I know from experience that digging through those files can
> be frustrating, since some of the files refer to multi-band versions
> of the hex and others to single band versions.
>
> What I propose is that we create a FAQ (Frequently Asked Questions)
> file that we can refer people to. I would be happy to create such a
> file and maintain it. It's not that I know all the answers, but that
> I have time and am willing to ask people who do know how to answer
> them.
>
> What do you think?
>
> Dave W1GQL
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> Yahoo! Groups Links
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2160. Re: Feedline separation

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-24 19:54:30 UTC
From: dl7io
Topic: 2153 Message: 2160

Hello Gerry,
will try to answer your questions in your text.
By the way...the FAQ idea is very good in my eyes. We should start with the comments EI7BA already made on his page. There are a lot of FAQ's collected. Even I decided to make a redesign of the 5band-pdf-files with some more often asked details and dimensions for other beams as well.
regards Holger

> Hello Holger!
> Thanks much for the speedy response! I fear that I may have to start
> all over! I started with the intention of building the 5 band
> reflected W beam that I believe you had posted on the net. Unable to
> conveniently find bare wire, I elected to make the elements shorter
> on the basis of the suggestion 10 to 15 cm shorter. Assuming the 20
> meter element at 217.32 would be reduced to 211.34, I came up with a
> ratio of change, .9725 and applied it to all element dimensions, and
> reducing the tip space also using the same ratio.

The next posting offers a good possibility to find out the ratio of change. I guess you can take any kind of not insulated cable to get the difference in the length and you don't need to remove the insulation from the cable if the diameter of the wire is the same.

When I started with my designs I could not calculate with EZNEC and wire insulation. But without calculation I was not able to get usefull results. I finally bought "some" miles of noninsulated wire. The only available source to me was a local manufacturer and he asked me how many tons of copper wire I would like to buy... There will be some wire left for my kids as well ;-) Later I found that the noninsulated wire also is much (about 50% I guess) lighter and easier in the handling than insulated wire.

> It then was not
> until I had obtained my fishing poles for spreaders that it seemed
> the large spreader diameter near the hub resisted curving and would
> seem to have caused my lower band elements to be too close together
> that I then decided to do only 3 bands to allow more element
> separation between bands.

Don't do this! Install all bands. There is a good chance that even if the elements are closer together you will get all bands working fine.

IF you have problems with 10/12m to get them working, choose 12m for optimization. For 10m you easy can get a 3 ele CB beam for a couple of bugs and change this.

> I apparently will need to start all over and have thus far only
> cut the 20 meter elements. I used a piece of RG8-M coax split open
> for the feedline, keeping the shield about 1-1/2" from the 'center'
> conductor. I know now that was a big mistake, but if the lines were
> brought close together would the RG8-M be adequate. It was the only
> coax available locally. Obviously I will need something better for
> coax to the radio. Incidentally, I am feeding the 20m element.
> I would like to stick to my using insulated wire since I have
it,
> but otherwise what is your best advice?

I was thinking about the feeding line along the center hub, between the different elements. Again use wire of high diameter 4-6mm² at minimum and install the wire as close together as you can. The distance between the wires is making the impadance of the cable. As bigger the distance as higher the impedance and we call this feeding system "low impedance line" which means as close together as you can.

Here comes the terminus "chicken leader" from which is one by one translated from the German. One of the last posting had this question. The high impedance lines of 300/400+ Ohms we build/t ourself from wire and plastic or wooden sticks to hold the wire in a definite distance is called "chicken wire" feeding system in German.

I would go back to a 5 band
> version if I can make it work. Thanks much!
> Gerry KC0MSX
>
> --- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
> >
> > Hello Gerry,
> > where did you take the dimensions for this version (20/17/10m)?
> Have
> > you done some calculation for this 3 bands?
> > What are the dimensions you will use?
> > How are you feeding (at 10m or at 20m element)?
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> > In multiband versions you have you install all wires. You will
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> > have success installing one band trying to tune it. This will
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> > but measuring with the second band installed you will have
totally
> > different results and will need other dimensions. And continueing
> > with band No.3 you have to change all elements again.
> >

> > You cannot use 5-band diemnsions and install it without 15/10m.
It
> > will not work properly.
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> > Regarding the feeding line. It is a low impedance line. To get a
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> > impedance you need the wires as close together as possible. The
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> > is to fix them with cable strips (hope it's the right word). As
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> > you separate the wires as higher the resistance of the feeding
> system
> > will be. Remember a chicken leader has a couple of hundreds Ohm.
> >
> > If you have any antenna model please let us know.
> >
> > regards Holger, DL7IO
> >
> >
> > --- In hex-beam@yahoogroups.com, "gerry_schjelderup"
<KC0MSX@a...>
> > wrote:
> > >
> > > Hi all,
> > > Help! I have begun assembling a 3 band hex beam for 20,17, and
> 10
> > > meters. Have thus far only installed the 20m element. I am
using
> > > insulated #14 stranded wire and have reduced element length by
6"
> > > from normal specs. But my swr readings are too high to
corrected
> by
> > > element length adjustment. 3:1+ Is the feedline separation on
the
> > > center pole a factor in influenceing my swr? Or can there be
> > another
> > > factor making my swr readings so high?
> > > Gerry KC0MSX

2161. Re: [hex-beam] FAQ file

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-24 20:00:03 UTC
From: Mark Robinson
Topic: 2158 Message: 2161

Some of is have no options. There is no cable here or dsl. I am lucky that I can get a 46K connection but I have friends who can barely hold 26K on their phone line. I have been waiting for dsl for over 5 years now. Finally Nextel are offering high speed wireless in this area. I am on the fringe of reception, so I am not sure if that will work but it's worth a try. Maybe a hexbeam will help me hi hi

Mark N1UK

----- Original Message -----
From: "m0bsw" <m0bsw@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, 24 October, 2004 3:30 PM
Subject: Re: [hex-beam] FAQ file

>
> what do ya mean 26.6 no one has that anymore, come on get broadband Hi HI
> Paul
> ----- Original Message -----
> From: "W1GQL" <w1gql@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Sunday, October 24, 2004 7:11 PM
> Subject: [hex-beam] FAQ file
>
>
> >
> >
> > I am visiting with my sister-in-law in Olympia Washington. She
> > has a very fast cable connection to the web. Since I only have
> > a 26.6 dial up connection at home in Maine, I have taken advantage of
> > her fast connection to read all the group's postings since the
> > beginning.
> >
> > Having read them all in a couple days, I have noticed that a number
> > of homebrew questions are repeated over and over. Very often the
> > person asking the question is told to check the files sections for
> > answers. I know from experience that digging through those files can
> > be frustrating, since some of the files refer to multi-band versions
> > of the hex and others to single band versions.
> >
> > What I propose is that we create a FAQ (Frequently Asked Questions)
> > file that we can refer people to. I would be happy to create such a
> > file and maintain it. It's not that I know all the answers, but that
> > I have time and am willing to ask people who do know how to answer
> > them.
> >

> > What do you think?
> >
> > Dave W1GQL
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2162. Re: FAQ file

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-24 20:38:13 UTC
From: w4wb
Topic: 2158 Message: 2162

Mark,

A FAQ is fine. I suggest that it be maintained in the Database
Section of the group. Contact me direct and I will explain how to
use the database for this purpose. I have built several others in
different groups. Would be pleased for you to build and maintain it.

73,
Barry W4WB
Hex-Beam Group Moderator

--- In hex-beam@yahoogroups.com, "W1GQL" <w1gql@m...> wrote:
>
> I am visiting with my sister-in-law in Olympia Washington. She
> has a very fast cable connection to the web. Since I only have
> a 26.6 dial up connection at home in Maine, I have taken advantage
of
> her fast connection to read all the group's postings since the
> beginning.
>
> Having read them all in a couple days, I have noticed that a number
> of homebrew questions are repeated over and over. Very often the
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> answers. I know from experience that digging through those files
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> be frustrating, since some of the files refer to multi-band
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> of the hex and others to single band versions.
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> What I propose is that we create a FAQ (Frequently Asked Questions)
> file that we can refer people to. I would be happy to create such
a
> file and maintain it. It's not that I know all the answers, but
that
> I have time and am willing to ask people who do know how to answer
> them.
>
> What do you think?
>
> Dave W1GQL

2163. Re: [hex-beam] FAQ file

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-24 20:41:26 UTC
From: m0bsw
Topic: 2158 Message: 2163

I would never have believed it America, I really thought ,you all had fast
speed connection., you could knock me over with a feather
Paul
----- Original Message -----
From: "Mark Robinson" <markrob@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, October 24, 2004 9:00 PM
Subject: Re: [hex-beam] FAQ file

>
>
> Some of is have no options. There is no cable here or dsl. I am lucky
> that
> I can get a 46K connection but I have friends who can barely hold 26K on
> their phone line. I have been waiting for dsl for over 5 years now.
> Finally
> Nextel are offering high speed wireless in this area. I am on the fringe
> of
> reception, so I am not sure if that will work but it's worth a try. Maybe
> a
> hexbeam will help me hi hi
>
> Mark N1UK
>
>
>
> ----- Original Message -----
> From: "m0bsw" <m0bsw@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Sunday, 24 October, 2004 3:30 PM
> Subject: Re: [hex-beam] FAQ file
>
>
>>
>> what do ya mean 26.6 no one has that anymore, come on get broadband Hi HI
>> Paul
>> ----- Original Message -----
>> From: "W1GQL" <w1gql@...>
>> To: <hex-beam@yahoogroups.com>
>> Sent: Sunday, October 24, 2004 7:11 PM
>> Subject: [hex-beam] FAQ file
>>
>>
>> >
>> >

>> > I am visiting with my sister-in-law in Olympia Washington. She
>> > has a very fast cable connection to the web. Since I only have
>> > a 26.6 dial up connection at home in Maine, I have taken advantage of
>> > her fast connection to read all the group's postings since the
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>> > Having read them all in a couple days, I have noticed that a number
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>> > person asking the question is told to check the files sections for
>> > answers. I know from experience that digging through those files can
>> > be frustrating, since some of the files refer to multi-band versions
>> > of the hex and others to single band versions.
>> >
>> > What I propose is that we create a FAQ (Frequently Asked Questions)
>> > file that we can refer people to. I would be happy to create such a
>> > file and maintain it. It's not that I know all the answers, but that
>> > I have time and am willing to ask people who do know how to answer
>> > them.
>> >
>> > What do you think?
>> >
>> > Dave W1GQL
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>> > Yahoo! Groups Links
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2164. Re: Feedline separation

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-24 21:54:40 UTC
From: gerry_schjelderup
Topic: 2153 Message: 2164

Darren, Thanks for the suggestion of trying a sample stripped test
wire the determine a shortening factor for insulated wire elements.
Also think a FAQ suggestion could be useful and convenient.
Gerry KC0MSX

--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
> This goes back to insulated wires, PVC covered wires all seem to be
> different, they do not have the same insulation thickness and
different
> additives are used to make them fire retardant, flexible etc.
> There seems to be only one method of finding out how much to allow
for the
> insulated jacket if you can't get the technical info from the wire
> manufacturer, you make up a dipole using insulated wire, say for
10m, you
> measure the impedance over the band using an analyser and then you
strip
> the insulation, recheck the length incase you stretched the
conductor while
> stripping , put the antenna back in exactly the same position and
then see
> now much up the band the resonant frequency has shifted. It is then
easy to
> work out your 'shortening factor'
> By guessing the velocity factor of the wire you could be a little
out, I
> guessed at 0.975 which seems to be what everyone uses for pvc wire
but my
> 1.5mm(csa) wire with 0.7mm jacket comes out at 0.96, Not a lot in
it but
> 1.5% is still enough to shift the resonant frequency of my hex by
400KHz on
> 28MHz.
>
> To save a lot of headaches, use bare wire and if it still doesnt
work blame
> Holger ;-)
>
>
> Darren G0TSM
>
> At 00:17 24/10/2004, you wrote:
>
> >Hello Holger!
> >Thanks much for the speedy response! I fear that I may have to

start
> >all over! I started with the intention of building the 5 band
> >reflected W beam that I believe you had posted on the net. Unable
to
> >conveniently find bare wire, I elected to make the elements shorter
> >on the basis of the suggestion 10 to 15 cm shorter. Assuming the 20
> >meter element at 217.32 would be reduced to 211.34, I came up with
a
> >ratio of change, .9725 and applied it to all element dimensions,
and
> >reducing the tip space also using the same ratio. It then was not
> >until I had obtained my fishing poles for spreaders that it seemed
> >the large spreader diameter near the hub resisted curving and would
> >seem to have caused my lower band elements to be too close together
> >that I then decided to do only 3 bands to allow more element
> >separation between bands.
> > I apparently will need to start all over and have thus far
only
> >cut the 20 meter elements. I used a piece of RG8-M coax split open
> >for the feedline, keeping the shield about 1-1/2" from the 'center'
> >conductor. I know now that was a big mistake, but if the lines were
> >brought close together would the RG8-M be adequate. It was the only
> >coax available locally. Obviously I will need something better for
> >coax to the radio. Incidentally, I am feeding the 20m element.
> > I would like to stick to my using insulated wire since I have
it,
> >but otherwise what is your best advice? I would go back to a 5 band
> >version if I can make it work. Thanks much!
> >Gerry KC0MSX
> >
> >--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
> > >
> > > Hello Gerry,
> > > where did you take the dimensions for this version (20/17/10m)?
> >Have
> > > you done some calculation for this 3 bands?
> > > What are the dimensions you will use?
> > > How are you feeding (at 10m or at 20m element)?
> > > What are you using for the feeding line?
> > >
> > > In multiband versions you have you install all wires. You will
not
> > > have success installing one band trying to tune it. This will
work
> > > but measuring with the second band installed you will have
totally
> > > different results and will need other dimensions. And
continueing
> > > with band No.3 you have to change all elements again.
> > >

> > > You cannot use 5-band diemnsions and install it without 15/10m.
It
> > > will not work properly.
> > >
> > > Regarding the feeding line. It is a low impedance line. To get a
> >low
> > > impedance you need the wires as close together as possible. The
> >best
> > > is to fix them with cable strips (hope it's the right word). As
> >more
> > > you separate the wires as higher the resistance of the feeding
> >system
> > > will be. Remember a chicken leader has a couple of hundreds Ohm.
> > >
> > > If you have any antenna model please let us know.
> > >
> > > regards Holger, DL7IO
> > >
> > >
> > > --- In hex-beam@yahoogroups.com, "gerry_schjelderup"
<KC0MSX@a...>
> > > wrote:
> > > >
> > > > Hi all,
> > > > Help! I have begun assembling a 3 band hex beam for 20,17,
and
> >10
> > > > meters. Have thus far only installed the 20m element. I am
using
> > > > insulated #14 stranded wire and have reduced element length
by 6"
> > > > from normal specs. But my swr readings are too high to
corrected
> >by
> > > > element length adjustment. 3:1+ Is the feedline separation on
the
> > > > center pole a factor in influenceing my swr? Or can there be
> > > another
> > > > factor making my swr readings so high?
> > > > Gerry KC0MSX
> >
> >
> >
> >
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><http://us.ard.yahoo.com/SIG=129uf0bf0/M=294855.5468653.6549235.30011
76/D=groups/S=1705063108:HM/EXP=1098663436/A=2376776/R=0/SIG=11ldm1jvc
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> >click here
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> >[]
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> >Yahoo! Groups Links
> > * To visit your group on the web, go to:
> > *
> > <http://groups.yahoo.com/group/hex-
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> >
> > *
> > * To unsubscribe from this group, send an email to:
> > *
> > <mailto:hex-beam-unsubscribe@yahoogroups.com?
subject=Unsubscribe>hex-beam-unsubscribe@yahoogroups.com
> >
> > *
> > * Your use of Yahoo! Groups is subject to the
> > <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
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>
> [Non-text portions of this message have been removed]

2165. RE: [hex-beam] vocabulary

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-25 08:51:33 UTC
From: ic746_Mike
Topic: 2157 Message: 2165

hi ...
i think it is a 1 to 1 translation from german to english...
we call it Huehnerleiter ... that means only a symetric feederline with
450 ohms or so

73 and gd dx de mike DH6JL

-----Original Message-----
From: W1GQL [mailto:w1gql@...]
Sent: Sunday, October 24, 2004 8:03 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] vocabulary

Holger, you really have me very curious! What is "Chicken leader"?
I never heard that one and I like it!!! I wonder if it might be
what we call "zip cord" here in the states?

Dave W1GQL
Proud owner of a wonderful homebrew 20/17 Hex that is the
best antenna I have had in 50 years of hamming!

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p://companion.yahoo.com> click here

<http://us.adserver.yahoo.com/l?M=295196.4901138.6071305.3001176/D=group
s/S=:HM/A=2128215/rand=846602176>

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

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Service <http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

2166. Re: vocabulary

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-25 00:11:04 UTC
From: w4wb
Topic: 2157 Message: 2166

Mike,

Huehnerleiter does "directly translate" into chicken leader if one uses Babel Fish. Forgive me, but my German skills are very rusty from decades of non-use. However, if I recall correctly, Huehnerleiter was/is used in some cases to describe a walkway (often raised above the ground) comprising parallel supports (such as logs) with planks between them. Rather looks like a feedline with the supports being the conductors.

In English for this purpose, Huehnerleiter I believe would best translate to open-wire or window feedline. As you noted, the feedline is symmetric or, more commonly called, balanced. Impedance ranges from generally 300 to 600 Ohms depending upon the construction. Typically, window feedline (so called because some of the insulation between the conductors is cut out to form openings or window with the rest left to form separators ... also done to reduce the weight and wind load) is 450 Ohms while the stuff with the wider spaced rods is 600 Ohms.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "ic746_Mike" <ic-746@g...> wrote:
>
> hi ...
> i think it is a 1 to 1 translation from german to english...
> we call it Huehnerleiter ... that means only a symetric feederline
with
> 450 ohms or so
>
> 73 and gd dx de mike DH6JL
>
> -----Original Message-----
> From: W1GQL [mailto:w1gql@m...]
> Sent: Sunday, October 24, 2004 8:03 PM
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] vocabulary
>
>
>
> Holger, you really have me very curious! What is "Chicken leader"?
> I never heard that one and I like it!!! I wonder if it might be
> what we call "zip cord" here in the states?
>
> Dave W1GQL

> Proud owner of a wonderful homebrew 20/17 Hex that is the
> best antenna I have had in 50 years of hamming!
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> * To unsubscribe from this group, send an email to:
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> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/> .
>
>
>
>
> [Non-text portions of this message have been removed]

2167. Update on 5 Band Build - Strange Happenings

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-25 07:42:47 UTC
From: Jim Balls
Topic: 2167 Message: 2167

Hi all,

Over the last few weeks I have built and tuned my Home Brew 5 Band Reflected W. I was having trouble with the matching so I built a new feed line from 10mm2 cables which are tied together and tabs soldered on at the correct distances for feeding the elements, this has cured the impedance problems but I'm now struggling to get the antenna SWR acceptable on all bands.

My hex is installed on my 4 section 45' wind up / tilt over lattice mast, the stub mast from the rotator is 2" Stainless Steel and I have made an offset mount, when on the tower the stub mast runs up between the cold side and the reflector, the same as the Coax.

I've removed all other antennas from the tower at present except for a tri band vertical which is about 2' above the top of the hex.

I spent most of Sunday trying to fine tune the elements for an acceptable SWR, what I have noticed it that height above ground affects the SWR in a big way, if I only have the antenna at about 30' then the SWR is OK on most bands except 15m, for some reason this looks short in length. If I wind the antenna up to about 50' then the SWR is out on 20M, 15M & 12M .. 15M still looks to be to short and 12M looks long on the MFJ analyser.

The ground below the tower has a 10 x 8' garden shed and at the back about 9' from the tower mounting there are some Hawthorne bushes about 15' tall and a bit further away is a tree which is about 20' tall .. I guess these must be affecting the SWR?

Do you think I should try optimizing the height above ground for best SWR on most bands then just tune the odd ones or do I go for maximum height?

Maybe the Triband Vertical which has radials on, one long one for 6m is affecting the 20M as this is over 2:1 at it's lowest when it's at 50' but at 30' it's 1:2 at it's lowest which is about 14.030 ... strange or what?

I'm still using the Coax Choke 6 turns of RG Mini 8 wound on a 4" former (mid section of a Ocean Spray White Cranberry Juice bottle !!)
as I cannot source any ferrite beads here in the UK .. is the 6 turns correct for this coax?

I'm having some good success with the antenna, just calling CQ on 10M results in many stations calling me on Sunday Afternoon with good reports, this morning I had the tower 30' because of the wind and I worked Dakar on 20m second call with most of Europe calling, so it definitely works ..

Any advice on the tuning or checking for faults would be most appreciated.

Oh and has any tried feeding from the bottom using external feedlines, if so what are the feedline lengths below the 10m element where the coax would be connected?

This is a most interesting and sometimes frustrating project!

Regards,

Jim M0CKE

2168. Re: FAQ file

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-25 07:48:58 UTC
From: m0cke
Topic: 2158 Message: 2168

What a brilliant idea, I've scoured the group and still I'm finding questions to ask which may have been covered but actually finding the message again from the thousands takes a while especially if your not sure what words to put in the search

Using the Database on the group is a very good idea.

I've actually read this after my last posting about my attempt at a 5 Band hex which I'm still struggling with .. if you have anwsers to a couple of the questions then put them in the FAQ.

Thanks for a great group and a great project!

Regards,

Jim M0CKE

--- In hex-beam@yahoogroups.com, "W1GQL" <w1gql@m...> wrote:
>
> I am visiting with my sister-in-law in Olympia Washington. She
> has a very fast cable connection to the web. Since I only have
> a 26.6 dial up connection at home in Maine, I have taken advantage
of
> her fast connection to read all the group's postings since the
> beginning.
>
> Having read them all in a couple days, I have noticed that a number
> of homebrew questions are repeated over and over. Very often the
> person asking the question is told to check the files sections for
> answers. I know from experience that digging through those files
can
> be frustrating, since some of the files refer to multi-band
versions
> of the hex and others to single band versions.
>
> What I propose is that we create a FAQ (Frequently Asked
Questions)
> file that we can refer people to. I would be happy to create
such a
> file and maintain it. It's not that I know all the answers, but
that
> I have time and am willing to ask people who do know how to answer
> them.
>
> What do you think?
>

> Dave W1GQL

2170. Still having problems & Comparison of Home Brew Design Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-27 17:23:19 UTC
From: Jim Balls
Topic: 2170 Message: 2170

Hi all,

I'm still struggling to get my home brew beam to play properly, So I thought I would create a spreadsheet with the dimensions used by DL7IO, LZ2BE and from the formulas in hexcalcv3 to try and understand why I have a problem.

I originally cut my elements and tip spaced as per the hexcalcv3 file, but used the center post feed spacing as per DL7IO, after playing and getting very mixed results I decided to set the element lengths and tip spacing to DL7IO's PDF, this was better but still mixed results and not the SWR curves or expected Impedance at lowest SWR. SO Iâ□□m looking deeper now, Maybe I need to strip back the insulation on the 10mm2 feed lines to get them closer together. I'm also going to test my 100' of feed coax to make sure there is no fault on this. I'm also waiting for some type 77 ferrite beads to make a better choke than the present 4" dia 6 turn RG213 choke.

I have uploaded some picture to the Photo's sections, maybe someone could comment if they can see any problems, especially with the low impedance feed.

Anyway back to the table If you are interested it should be shown at the bottom of this email, I hope it's displayed OK as I know some email systems mess up this sort of thing, I have calculated the difference in Reflector / Driven lengths as CM and % as a comparison for each system.

LZ2BE's is bottom fed at the 10m element and the dimensions are from the MMANA file
DL7IO's is top fed at a point 4.5cm above the 20M element and the dimensions are from his PDF file
Hexcalcv3 is top fed at a point 4.5cm above the 20M element and the dimensions are from the hexcalcv3 Spreadsheet.

I'm interested how the LZ2BE has a reasonably constant difference in % of lengths yet the DL7IO differs quite a bit, if you look at the difference in lengths on the 17 / 15 / 12m bands they are

all 6cm.

I'm not faulting the work compiled by these knowledgeable people I just need to try and
understand why the differences and the results caused by the differences.

I have noticed that the hexcalcv3 makes the 17M and 12M element much longer than in the DL7IO pdf.

I couldn't get the table to display properly so I've created a folder in the Files area of the group called Calculation Comparisons, in here is the Spreadsheet I've been messing about with, take a look at the comparison sheet.

Any thoughts on the results shown in the table?

Thanks

Jim M0CKE

2171. Re: Still having problems & Comparison of Home Brew Design Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-27 20:35:28 UTC
From: dl7io
Topic: 2170 Message: 2171

Hello Jim,
before you installed the beam in his position between the other antennas, have you measured the SWR-values at a hight of about 3-4m? If yes what were the results?

I guess in a former posting you also wrote that the antenna changed it's values while moved to the final position. That is unusual to me. My beams almost don't change SWR while changing their height. As I have a telescope tower 3-15m their is no significant change of the SWR-values even for the 40m beam. The reason in my opinion is the coupling in the magnet field component because the wires are so close together in the middle and at the ends. So the influence of the electrical field component is not like for yagis where the coupling between the elements is in the electrical field. Here of course you have a strong influence of the earth/ground which can be seen while changing the height. If you can compare to a yagi (I had tribanders for tests) you will see or better hear that our beams are more quite. This also confirmed me in my opinion. It acts more like a closed loop or a magnetic loop. So if the SWR is changing a lot that could be the result of the surrounding antennas or other metal parts that are close to the beam (e.g. the mast moving along the center post to hold the top antennas). I have no experience with an installation like yours but if the SWR changes a lot I'm assuming an external influence by the other antennas or metal beams.
regards Holger

--- In hex-beam@yahoogroups.com, Jim Balls <m0cke@b...> wrote:
> Hi all,
>
> I'm still struggling to get my home brew beam to play properly, So
I
> thought I would create a
> spreadsheet with the dimensions used by DL7IO, LZ2BE and from the
formulas
> in hexcalcv3 to try
> and understand why I have a problem.
>
> I originally cut my elements and tip spaced as per the hexcalcv3
file, but
> used the center post
> feed spacing as per DL7IO, after playing and getting very mixed
results I
> decided to set the
> element lengths and tip spacing to DL7IO's PDF, this was better but

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> mixed results and not
> the SWR curves or expected Impedance at lowest SWR. SO Iâ□□m
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> now, Maybe I need to
> strip back the insulation on the 10mm2 feed lines to get them
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> together. I'm also going to
> test my 100' of feed coax to make sure there is no fault on this.
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> waiting for some type
> 77 ferrite beads to make a better choke than the present 4" dia 6
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> 15 / 12m bands they are
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> need to try and
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> the Files area of the group called Calculation Comparisons, in here is the
> Spreadsheet I've been messing about with, take a look at the comparison sheet.
>
> Any thoughts on the results shown in the table?
>
> Thanks
>
> Jim M0CKE

2172. Re: Still having problems & Comparison of Home Brew Design Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-28 07:35:10 UTC
From: m0cke
Topic: 2170 Message: 2172

Hi Con,

OK What I have done is stripped off nearly all the other antenna's except for the 6m/2m/70cm Triband Vertical which is above the antenna, a small 70cms beam which is about 2m below the antenna and a small 2.3ghz antenna which is about 1m below the antenna.

Because of my lack of garden space and overhead antenna cables it's impossible for me to test the antenna without installing on the main mast, so tests were not done prior to installing.

I have taken a picture of the beam as it is installed now so you can see, I have put this in my Pictures Folder on the group.

Also I have put a spread sheet with my SWR / Impedance findings in the Files area in the M0CKE folder (These can be deleted after you have looked if they are of no use).

I will test today on the height problem, I think since I have changed the feed coax from RG Mini 8 to RG213 the problem of the SWR changing with height has gone, I will update you later should the WX be ok.

When I'm trying to tune the bands I'm folding back the element wire at the ends and taping it to the element then inserting the folded end into the connector block, I know this isn't ideal but it's the only way I could think of trying to change the resonant frequency without cutting the wires incase I went too short .. is this OK?

Please take a look at the pictures and SWR spread sheet and give me your comments.

Thanks for your time, problems are all the fun of a great project!

Regards,

Jim M0CKE

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
>
> Hello Jim,
> before you installed the beam in his position between the other
> antennas, have you measured the SWR-values at a hight of about 3-
4m?
> If yes what were the results?
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> I guess in a former posting you also wrote that the antenna
changed
> it's values while moved to the final position. That is unusual to
me.
> My beams almost don't change SWR while changing their height. As I
> have a telescope tower 3-15m their is no significant change of the
> SWR-values even for the 40m beam. The reason in my opinion is the
> coupling in the magnet field component because the wires are so
close
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> electrical field component is not like for yagis where the
coupling
> between the elements is in the electrical field. Here of course
you
> have a strong influence of the earth/ground which can be seen
while
> changing the height. If you can compare to a yagi (I had
tribanders
> for tests) you will see or better hear that our beams are more
quite.
> This also confirmed me in my opinion. It acts more like a closed
loop
> or a magnetic loop. So if the SWR is changing a lot that could be
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> close to the beam (e.g. the mast moving along the center post to
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> yours but if the SWR changes a lot I'm assuming an external
influence
> by the other antennas or metal beams.
> regards Holger
>
> --- In hex-beam@yahoogroups.com, Jim Balls <m0cke@b...> wrote:
> > Hi all,
> >
> > I'm still struggling to get my home brew beam to play properly,
So
> I
> > thought I would create a
> > spreadsheet with the dimensions used by DL7IO, LZ2BE and from
the
> formulas
> > in hexcalcv3 to try
> > and understand why I have a problem.
> >
> > I originally cut my elements and tip spaced as per the hexcalcv3
> file, but
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> > feed spacing as per DL7IO, after playing and getting very mixed
> results I
> > decided to set the
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but
> still
> > mixed results and not
> > the SWR curves or expected Impedance at lowest SWR. SO Iâ□□m
> looking deeper
> > now, Maybe I need to
> > strip back the insulation on the 10mm2 feed lines to get them
> closer
> > together. I'm also going to
> > test my 100' of feed coax to make sure there is no fault on
this.
> I'm also
> > waiting for some type
> > 77 ferrite beads to make a better choke than the present 4" dia
6
> turn
> > RG213 choke.
> >
> > I have uploaded some picture to the Photo's sections, maybe
someone
> could
> > comment if they can see
> > any problems, especially with the low impedance feed.
> >
> > Anyway back to the table If you are interested it should be
shown
> at the
> > bottom of this email, I
> > hope it's displayed OK as I know some email systems mess up this
> sort of
> > thing, I have calculated
> > the difference in Reflector / Driven lengths as CM and % as a
> comparison
> > for each system.
> >
> > LZ2BE's is bottom fed at the 10m element and the dimensions are
> from the
> > MMANA file
> > DL7IO's is top fed at a point 4.5cm above the 20M element and
the
> > dimensions are from his PDF file
> > Hexcalcv3 is top fed at a point 4.5cm above the 20M element and
the
> > dimensions are from the
> > hexcalcv3 Spreadsheet.

> >
> > I'm interested how the LZ2BE has a reasonably constant
difference
> in % of
> > lengths yet the DL7IO
> > differs quite a bit, if you look at the difference in lengths on
> the 17 /
> > 15 / 12m bands they are
> > all 6cm.
> >
> > I'm not faulting the work compiled by these knowledgeable people
I
> just
> > need to try and
> > understand why the differences and the results caused by the
> differences.
> >
> > I have noticed that the hexcalcv3 makes the 17M and 12M element
> much longer
> > than in the DL7IO pdf.
> >
> > I couldn't get the table to display properly so I've created a
> folder in
> > the Files area of the group called Calculation Comparisons, in
here
> is the
> > Spreadsheet I've been messing about with, take a look at the
> comparison sheet.
> >
> > Any thoughts on the results shown in the table?
> >
> > Thanks
> >
> > Jim M0CKE

2173. Re: Still having problems & Comparison of Home Brew Design Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-28 12:52:36 UTC
From: w4wb
Topic: 2170 Message: 2173

Hi Jim,

I think your were writint to Holger rather than Con of the
Spiderbeam. :-)

Somehow in our private emails, I missed that you have the antenna
above the HB. FWIW, this has been observed to be a problem for some
people. One of the issues is how you support the vertical, what it
is made of, spatial relation of the support wrt the HB, etc.

I note that some cases work and others don't.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "m0cke" <m0cke@b...> wrote:
>
> Hi Con,
>
> OK What I have done is stripped off nearly all the other antenna's
> except for the 6m/2m/70cm Triband Vertical which is above the
> antenna, a small 70cms beam which is about 2m below the antenna and
> a small 2.3ghz antenna which is about 1m below the antenna.
>
> Because of my lack of garden space and overhead antenna cables it's
> impossible for me to test the antenna without installing on the
main
> mast, so tests were not done prior to installing.
>
> I have taken a picture of the beam as it is installed now so you
can
> see, I have put this in my Pictures Folder on the group.
>
> Also I have put a spread sheet with my SWR / Impedance findings in
> the Files area in the M0CKE folder (These can be deleted after you
> have looked if they are of no use).
>
> I will test today on the height problem, I think since I have
> changed the feed coax from RG Mini 8 to RG213 the problem of the
SWR
> changing with height has gone, I will update you later should the
WX
> be ok.
>
> When I'm trying to tune the bands I'm folding back the element wire

> at the ends and taping it to the element then inserting the folded
> end into the connector block, I know this isn't ideal but it's the
> only way I could think of trying to change the resonant frequency
> without cutting the wires incase I went too short .. is this OK?
>
> Please take a look at the pictures and SWR spread sheet and give me
> your comments.
>
> Thanks for your time, problems are all the fun of a great project!
>
> Regards,
>
> Jim M0CKE
>

2174. Re: Still having problems & Comparison of Home Brew Design Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-28 15:01:59 UTC
From: dl7io
Topic: 2170 Message: 2174

Jim,
If you like I will discuss it with Con to find out his opinion ;-)
We know each other well and from time to time we have long telefon
discussions about antennas, calculations, materials and even other
things.

I had a look on your SWR curves. It does not look to strange to me.
Most of the bands seem to be to long. That is better than otherwise...
Only 15m is to short for about 5cm. Please shorten only the radiator.
Do not touch the reflector. The reflector is most important to get
gain and the radiator has most impact on the SWR. I'm not sure how
difficult it is but the best way would be to change one band and
check and compare all other bands with the values you got before. In
the model the changing of one band influences also the next bands and
this is as more as closer the wires are. So 12m tuning has be done
very carefully.
17m is about 0.8% to long about 6-7cm.
15m is about 1.6% to short about 5cm
12m is about 1.2 % to long, about 3cm.

The constant SWR on 20m might be a result of the top antenna.
10m looks fine to me.

Keep us informed!

Holger

--- In hex-beam@yahoogroups.com, "m0cke" <m0cke@b...> wrote:
>
> Hi Con,
>
> OK What I have done is stripped off nearly all the other antenna's
> except for the 6m/2m/70cm Triband Vertical which is above the
> antenna, a small 70cms beam which is about 2m below the antenna and
> a small 2.3ghz antenna which is about 1m below the antenna.
>
> Because of my lack of garden space and overhead antenna cables it's
> impossible for me to test the antenna without installing on the
main
> mast, so tests were not done prior to installing.
>
> I have taken a picture of the beam as it is installed now so you
can
> see, I have put this in my Pictures Folder on the group.
>

> Also I have put a spread sheet with my SWR / Impedance findings in
> the Files area in the M0CKE folder (These can be deleted after you
> have looked if they are of no use).
>
> I will test today on the height problem, I think since I have
> changed the feed coax from RG Mini 8 to RG213 the problem of the
SWR
> changing with height has gone, I will update you later should the
WX
> be ok.
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> When I'm trying to tune the bands I'm folding back the element wire
> at the ends and taping it to the element then inserting the folded
> end into the connector block, I know this isn't ideal but it's the
> only way I could think of trying to change the resonant frequency
> without cutting the wires incase I went too short .. is this OK?
>
> Please take a look at the pictures and SWR spread sheet and give me
> your comments.
>
> Thanks for your time, problems are all the fun of a great project!
>
> Regards,
>
> Jim M0CKE

2175. Re: Still having problems & Comparison of Home Brew Design Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-28 20:01:08 UTC
From: m0cke
Topic: 2170 Message: 2175

Hi Holger ... Sorry, I'm also getting parts togethter to build a Spider Beam for another QTH.

OK I've spent most of the day tuning the antenna and I have taken note of your comments on not altering the Reflector, So now I ahve most bands with a reasonable SWR except for 15M, What ever I do to this band it will not work. I've uploaded the SWR data into the Files area again m0cke refW SWR V2, Take a look please.

I have tried shortening upto as much as 10cm on each leg and I have tried lenghtening as much as 15cm on each leg, still no joy, It does move the SWR but not very far.

I notice there are 2 sections around 15M which are dipping, One high One low but I'm guessing these are interactions of other elements as the altering of the lengths doesn't make mush difference to either dip. These are shown on the SWR spreadsheet as I have done a broadband sweep from 20Mhz to 23 Mhz so you can see my problem.

Any ideas anyone?

I have stripped off all antennas now, but I'm still using the offset method of mounting as when I get the antenna close I will try adding back the other antenna's to see what the effects are.

Thanks again for all the help from the group, it would be very difficult without!

Regards,

Jim M0CKE

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
>
> Jim,
> If you like I will discuss it with Con to find out his opinion ;-)
> We know each other well and from time to time we have long telefon
> discussions about antennas, calculations, materials and even other
> things.
>
> I had a look on your SWR curves. It does not look to strange to me.
> Most of the bands seem to be to long. That is better than
otherwise...
> Only 15m is to short for about 5cm. Please shorten only the
radiator.
> Do not touch the reflector. The reflector is most important to get

> gain and the radiator has most impact on the SWR. I'm not sure how
> difficult it is but the best way would be to change one band and
> check and compare all other bands with the values you got before.
In
> the model the changing of one band influences also the next bands
and
> this is as more as closer the wires are. So 12m tuning has be done
> very carefully.
> 17m is about 0.8% to long about 6-7cm.
> 15m is about 1.6% to short about 5cm
> 12m is about 1.2 % to long, about 3cm.
>
> The constant SWR on 20m might be a result of the top antenna.
> 10m looks fine to me.
>
> Keep us informed!
>
> Holger
>
> --- In hex-beam@yahoogroups.com, "m0cke" <m0cke@b...> wrote:
> >
> > Hi Con,
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> > OK What I have done is stripped off nearly all the other
antenna's
> > except for the 6m/2m/70cm Triband Vertical which is above the
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> > a small 2.3ghz antenna which is about 1m below the antenna.
> >
> > Because of my lack of garden space and overhead antenna cables
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> > impossible for me to test the antenna without installing on the
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> > mast, so tests were not done prior to installing.
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> > see, I have put this in my Pictures Folder on the group.
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> > Also I have put a spread sheet with my SWR / Impedance findings
in
> > the Files area in the M0CKE folder (These can be deleted after
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> > have looked if they are of no use).
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> > I will test today on the height problem, I think since I have
> > changed the feed coax from RG Mini 8 to RG213 the problem of the
> SWR
> > changing with height has gone, I will update you later should the

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> > be ok.
> >
> > When I'm trying to tune the bands I'm folding back the element
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> > at the ends and taping it to the element then inserting the
folded
> > end into the connector block, I know this isn't ideal but it's
the
> > only way I could think of trying to change the resonant frequency
> > without cutting the wires incase I went too short .. is this OK?
> >
> > Please take a look at the pictures and SWR spread sheet and give
me
> > your comments.
> >
> > Thanks for your time, problems are all the fun of a great project!
> >
> > Regards,
> >
> > Jim M0CKE

2176. Re: Still having problems & Comparison of Home Brew Design Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-29 08:32:50 UTC
From: m0cke
Topic: 2170 Message: 2176

Hi Holger.

Raining here today so I expect not to get anything done :-(

So I've complied my measurements into a list for you to look at,
this corresponds with the latest SWR curves for the antenna at 30'
The 15M elemets are set as I originally cut them from the hexcalcv3
spreadsheet, all others have been altered for SWR, I need to
lengthen the 10M band again.

Band Reflec Driven Ref-Tip Ref-Dri Ref>Dri Ref>Dri
Space Space

20M 566 552 11 28 14 2.51%
17M 431 419 9.0 22.5 12 2.81%
15M 378 372 8.0 20 6 1.61%
12M 311 301 6.5 17 10 3.31%
10M 284 276 6.0 15.5 8 2.68%

I had the whole antenna down yesterday and checked all the driven
element connections, solder joints on the feedlines etc and found no
problems .. realy confused with the 15M band problem!

Regards,

Jim

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
>
> Jim,
> If you like I will discuss it with Con to find out his opinion ;-)
> We know each other well and from time to time we have long telefon
> discussions about antennas, calculations, materials and even other
> things.
>
> I had a look on your SWR curves. It does not look to strange to
me.
> Most of the bands seem to be to long. That is better than
otherwise...
> Only 15m is to short for about 5cm. Please shorten only the
radiator.
> Do not touch the reflector. The reflector is most important to get
> gain and the radiator has most impact on the SWR. I'm not sure how
> difficult it is but the best way would be to change one band and
> check and compare all other bands with the values you got before.

In
> the model the changing of one band influences also the next bands
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> this is as more as closer the wires are. So 12m tuning has be done
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> 17m is about 0.8% to long about 6-7cm.
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> The constant SWR on 20m might be a result of the top antenna.
> 10m looks fine to me.
>
> Keep us informed!
>
> Holger
>
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> >
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> > a small 2.3ghz antenna which is about 1m below the antenna.
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> > Because of my lack of garden space and overhead antenna cables
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> > have looked if they are of no use).
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> > I will test today on the height problem, I think since I have
> > changed the feed coax from RG Mini 8 to RG213 the problem of the
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frequency
> > without cutting the wires incase I went too short .. is this OK?
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me
> > your comments.
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> > Thanks for your time, problems are all the fun of a great
project!
> >
> > Regards,
> >
> > Jim M0CKE

2177. Re: Still having problems & Comparison of Home Brew Design Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-29 14:05:38 UTC
From: m0cke
Topic: 2170 Message: 2177

After weeks of playing I finally found the problem .... COAX!
I had a run of H100 up the mast which seems not to like HF .. lol
I swopped it out with a run of RG213 and all is well.

I've put the latset SWR results in the files area again under my
folder, if you would take a look please Holger and report and
adjustments you think I should make, although SWR is now good on all
bands I think the low SWR may start a little low on some bands, I
think I read somewhere this affects F/B and gain?

Thanks for all your help, just in time for CQWW!

Regards,

Jim M0CKE

--- In hex-beam@yahoogroups.com, "m0cke" <m0cke@b...> wrote:
>
> Hi Holger.
>
> Raining here today so I expect not to get anything done :-(
>
> So I've complied my measurements into a list for you to look at,
> this corresponds with the latest SWR curves for the antenna at 30'
> The 15M elemets are set as I originally cut them from the hexcalcv3
> spreadsheet, all others have been altered for SWR, I need to
> lengthen the 10M band again.
>
> Band Reflec Driven Ref-Tip Ref-Dri Ref>Dri Ref>Dri
> Space Space
>
> 20M 566 552 11 28 14 2.51%
> 17M 431 419 9.0 22.5 12 2.81%
> 15M 378 372 8.0 20 6 1.61%
> 12M 311 301 6.5 17 10 3.31%
> 10M 284 276 6.0 15.5 8 2.68%
>
>
> I had the whole antenna down yesterday and checked all the driven
> element connections, solder joints on the feedlines etc and found
no
> problems .. realy confused with the 15M band problem!
>
> Regards,
>

> Jim
>
>
>
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> --- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
> >
> > Jim,
> > If you like I will discuss it with Con to find out his opinion ;-)
> > We know each other well and from time to time we have long
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> > discussions about antennas, calculations, materials and even
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> > I had a look on your SWR curves. It does not look to strange to
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> > Most of the bands seem to be to long. That is better than
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> > Only 15m is to short for about 5cm. Please shorten only the
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> > the model the changing of one band influences also the next bands
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> > very carefully.
> > 17m is about 0.8% to long about 6-7cm.
> > 15m is about 1.6% to short about 5cm
> > 12m is about 1.2 % to long, about 3cm.
> >
> > The constant SWR on 20m might be a result of the top antenna.
> > 10m looks fine to me.
> >
> > Keep us informed!
> >
> > Holger
> >
> > --- In hex-beam@yahoogroups.com, "m0cke" <m0cke@b...> wrote:
> > >
> > > Hi Con,
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> > > OK What I have done is stripped off nearly all the other
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> > > the Files area in the M0CKE folder (These can be deleted after
> you
> > > have looked if they are of no use).
> > >
> > > I will test today on the height problem, I think since I have
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the
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> > > changing with height has gone, I will update you later should
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> the
> > > only way I could think of trying to change the resonant
> frequency
> > > without cutting the wires incase I went too short .. is this OK?
> > >
> > > Please take a look at the pictures and SWR spread sheet and
give
> me
> > > your comments.
> > >
> > > Thanks for your time, problems are all the fun of a great
> project!
> > >
> > > Regards,

> > >
> > > Jim M0CKE

2178. Re: Still having problems & Comparison of Home Brew Design Dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-29 17:08:09 UTC
From: w4wb
Topic: 2170 Message: 2178

Hi Jim,

Glad you isolated the main problem. Declare vistory and enjoy the contest. However, 10 m looks like it still needs some attention.

A good test is to listen to some of the 18 beacons (http://www.ncdxf.org/beacons.html) and check your F/B performance on each band.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "m0cke" <m0cke@b...> wrote:
>
> After weeks of playing I finally found the problem .... COAX!
> I had a run of H100 up the mast which seems not to like HF .. lol
> I swopped it out with a run of RG213 and all is well.
>
> I've put the latset SWR results in the files area again under my
> folder, if you would take a look please Holger and report and
> adjustments you think I should make, although SWR is now good on
all
> bands I think the low SWR may start a little low on some bands, I
> think I read somewhere this affects F/B and gain?
>
> Thanks for all your help, just in time for CQWW!
>
> Regards,
>
> Jim M0CKE
>

2179. Now it's working How do I?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-30 11:47:55 UTC
From: m0cke
Topic: 2179 Message: 2179

Hi all,

OK Now the Homebrew beam is working I need to understand how the F/B & Gain changes when tuning through the band.

Also what effects have the Tip Spacings have on the performance, although mine are set exactly to Holgar's information.

What affect does the length of the Reflector have on the F/B ad Gain?

What affect does the difference in length between the Driven and Reflector have on F/B and Gain?

Reason I'm asking is once I've had time to evaluate the performance I may wish to try altering the F/B should I think it seems low.

At present it seems to be working very well and for it's size it's excellent!

Thanks for any replies.

Jim M0CKE

2180. Re: [hex-beam] Now it's working How do I?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-30 11:50:26 UTC
From: m0bsw
Topic: 2179 Message: 2180

Well done Jim
the MA5B seems easier to me Hi Hi, see you arund 7.200 sometime
Paulk

----- Original Message -----
From: "m0cke" <m0cke@...>
To: <hex-beam@yahoogroups.com>
Sent: Saturday, October 30, 2004 12:47 PM
Subject: [hex-beam] Now it's working How do I?

>
>
> Hi all,
>
> OK Now the Homebrew beam is working I need to understand how the F/B
> & Gain changes when tuning through the band.
>
> Also what effects have the Tip Spacings have on the performance,
> although mine are set exactly to Holgar's information.
>
> What affect does the length of the Reflector have on the F/B ad Gain?
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> What affect does the difference in length between the Driven and
> Reflector have on F/B and Gain?
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> Reason I'm asking is once I've had time to evaluate the performance
> I may wish to try altering the F/B should I think it seems low.
>
> At present it seems to be working very well and for it's size it's
> excellent!
>
> Thanks for any replies.
>
> Jim M0CKE
>
>
>
>
>
>
>
> Yahoo! Groups Links
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>
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>
>
>

2181. Re: Now it's working How do I?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-30 12:08:43 UTC
From: m0cke
Topic: 2179 Message: 2181

Hi Paul,

My problems were not the beam as I have found out, if I had used the coax i'm using now I would have had the antenna working a couple of weeks ago .. saying that it's working well and has very good bandwidth, be carefull of the MA5B as I've heard the bandwidth is small on 20m also it's only a Dipole on 17m & 12m.

I would still build this again even after all my self inflicted troubles .. lol

OK been working some of the CQWW today getting through big pileups with the beam .. It works!

I've ask the questions because I want to know what affects the F/B and Gain .. all interesting to me.

I also have anoth local who is looking at building one and is comming over soon to take a look.

If you want to pop over just drop me an email and you can come over i'm only 1/2 hr frrom Pbrough.

See you on 40

Jim

--- In hex-beam@yahoogroups.com, "m0bsw" <m0bsw@t...> wrote:
> Well done Jim
> the MA5B seems easier to me Hi Hi, see you arund 7.200 sometime
> Paulk
>
> ----- Original Message -----
> From: "m0cke" <m0cke@b...>
> To: <hex-beam@yahoogroups.com>
> Sent: Saturday, October 30, 2004 12:47 PM
> Subject: [hex-beam] Now it's working How do I?
>
>
> >
> >
> > Hi all,
> >
> > OK Now the Homebrew beam is working I need to understand how the
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> > & Gain changes when tuning through the band.
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> > Also what effects have the Tip Spacings have on the performance,
> > although mine are set exactly to Holgar's information.
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> > I may wish to try altering the F/B should I think it seems low.
> >
> > At present it seems to be working very well and for it's size
it's
> > excellent!
> >
> > Thanks for any replies.
> >
> > Jim M0CKE
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> >
> > Yahoo! Groups Links
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2182. Re: [hex-beam] Re: Now it's working How do I?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-30 12:26:14 UTC
From: m0bsw
Topic: 2179 Message: 2182

A narrow bandwidth is no good to me ,who's well into hifi audio, W&S seem to think there the answer , another they are trying to sell me is a diamond CP6 vertical, never heard of them, Ive got to doo something soon ,she who must be obeyed at all times , doesn't like to see the wires dangling down. Thanks for the offer I may well do that if i can't decide which way to jump, mind you this is my chance to buy a field force 12 mmmm
73
Paul
----- Original Message -----
From: "m0cke" <m0cke@...>
To: <hex-beam@yahoogroups.com>
Sent: Saturday, October 30, 2004 1:08 PM
Subject: [hex-beam] Re: Now it's working How do I?

>
>
> Hi Paul,
>
> My problems were not the beam as I have found out, if I had used the
> coax i'm using now I would have had the antenna working a couple of
> weeks ago .. saying that it's working well and has very good
> bandwidth, be carefull of the MA5B as I've heard the bandwidth is
> small on 20m also it's only a Dipole on 17m & 12m.
>
> I would still build this again even after all my self inflicted
> troubles .. lol
>
> OK been working some of the CQWW today getting through big pileups
> with the beam .. It works!
>
> I've ask the questions because I want to know what affects the F/B
> and Gain .. all interesting to me.
>
> I also have anoth local who is looking at building one and is
> comming over soon to take a look.
>
> If you want to pop over just drop me an email and you can come over
> i'm only 1/2 hr frrom Pbrough.
>
> See you on 40
>
> Jim
>
>
> --- In hex-beam@yahoogroups.com, "m0bsw" <m0bsw@t...> wrote:

>> Well done Jim
>> the MA5B seems easier to me Hi Hi, see you arund 7.200 sometime
>> Paulk
>>
>> ----- Original Message -----
>> From: "m0cke" <m0cke@b...>
>> To: <hex-beam@yahoogroups.com>
>> Sent: Saturday, October 30, 2004 12:47 PM
>> Subject: [hex-beam] Now it's working How do I?
>>
>>
>> >
>> >
>> > Hi all,
>> >
>> > OK Now the Homebrew beam is working I need to understand how the
> F/B
>> > & Gain changes when tuning through the band.
>> >
>> > Also what effects have the Tip Spacings have on the performance,
>> > although mine are set exactly to Holgar's information.
>> >
>> > What affect does the length of the Reflector have on the F/B ad
> Gain?
>> >
>> > What affect does the difference in length between the Driven and
>> > Reflector have on F/B and Gain?
>> >
>> > Reason I'm asking is once I've had time to evaluate the
> performance
>> > I may wish to try altering the F/B should I think it seems low.
>> >
>> > At present it seems to be working very well and for it's size
> it's
>> > excellent!
>> >
>> > Thanks for any replies.
>> >
>> > Jim M0CKE
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>> > Yahoo! Groups Links
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2183. can hex beams be stacked?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-31 16:24:07 UTC
From: Tony DiCenzo
Topic: 2183 Message: 2183

Is there any reason two smaller hex beams cannot be stacked? I want to stack a 10-15 hex and a 20m hex on one mast. since the elements are stacked in the 5B hex, I believe it will not cause undue interference. But will appreciate any insights.

73,

Tony KX1G

KX1G@...

2184. Re: can hex beams be stacked?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-10-31 22:55:53 UTC
From: w4wb
Topic: 2183 Message: 2184

Yes Tony, they can. I suggest you speak with Mike Traffie since he has done stacking a number of times.
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Tony DiCenzo" <tonydicenzo@y...> wrote:
>
> Is there any reason two smaller hex beams cannot be stacked? I want
> to stack a 10-15 hex and a 20m hex on one mast. since the elements
> are stacked in the 5B hex, I believe it will not cause undue
> interference. But will appreciate any insights.
>
> 73,
>
> Tony KX1G
>
> KX1G@P...

2185. RE: [hex-beam] can hex beams be stacked?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-01 00:44:37 UTC
From: Kevin Adam
Topic: 2183 Message: 2185

Yes you cann stack Hex Beams if you search the web ou will find photos of this been done. With the tower.

-----Original Message-----
From: Tony DiCenzo [mailto:tonydicenzo@...]
Sent: Sunday, October 31, 2004 11:24 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] can hex beams be stacked?

Is there any reason two smaller hex beams cannot be stacked? I want to stack a 10-15 hex and a 20m hex on one mast. since the elements are stacked in the 5B hex, I believe it will not cause undue interference. But will appreciate any insights.

73,

Tony KX1G

KX1G@...

Yahoo! Groups Links

2186. Re: can hex beams be stacked?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-01 07:10:18 UTC
From: dl7io
Topic: 2183 Message: 2186

Hello Tony,
sure they can be stacked on a tower. I have been thinking about stacking 4 beams for 20-10m. This doesn't look to difficult by the mechanical problems and has an easy feeding.
But I'm not sure if we are talking about the same. If you mean to build your 15-10m wires into the 20m antenna that will probably not work that easy. Here you will have to do some calculations with an antenna simulation software before starting.

So please let us know what you are meaning with stacking.

regards Holger

PS. Jim (M0CKE), congrats to find out the problems. Have you reinstalled all the other antennas again? tnx for calling me in the CQWW.

--- In hex-beam@yahoogroups.com, "Tony DiCenzo" <tonydicenzo@y...>
wrote:
>
> Is there any reason two smaller hex beams cannot be stacked? I want
> to stack a 10-15 hex and a 20m hex on one mast. since the elements
> are stacked in the 5B hex, I believe it will not cause undue
> interference. But will appreciate any insights.
>
> 73,
>
> Tony KX1G
>
> KX1G@P...

2187. Basic info please!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-01 20:20:22 UTC
From: kev haworth
Topic: 2187 Message: 2187

Hi!!
Just come across the hexbeam on a web page by John Tait
http://ireland.iol.ie/~bravo/ and am intrigued to find out more and
maybe home brew a mono bander...

I live right on the edge of a beach, and therefore have excellent take
off and a great salt plain for earth.

My problem being is my QTH is very small, a middle terrace 3 bedroom 2
storey house, with one big advantage, antenna friendly neighbours!!
the lot is only 20 metres front to back, so big towers are a little
prohibitive, but my neighbour lets me use his chimney to site a
rotatable 3 band dipole, which has been fantastic, however, I'd like
the edge a monobander would give me....

Would the group be kind enough please to advise me on some sizes/specs
to construct a mono band antenna for 20 metres please, as 20 is my
favoured band, and i'm nearing DXCC after just one years operating.

Best Wishes, and thanks in anticipation

Kev Haworth
M0TNX / 2E0XTC

2188. Re: can hex beams be stacked?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-02 07:48:29 UTC
From: m0cke
Topic: 2183 Message: 2188

Hi Holger

Nice to work you in CQWW, I was just playing and spent a total of about 10hrs operating over the weekend, was very busy!

Yes I have put back on antenna's to the point that it is the same as the Photo, I still need to try putting back on my Microwave beams which could be this weekend.

I have ordered some Amidon FB-77-1024 ferrite beads and some FB-77-5621 (for smaller coax should I require sometime) but the 77 material is discontinued in the 5621 instead they are supplying 31 material.

I had a shock with the cost of carriage though, the parts were $25 and the carriage was $23 .. total of $48.50 then I will have to pay import duty and VAT, I can see now why no one stocks this stuff in the UK .... it's a shame our economy is killing this sort of thing!

I'm hoping that when I install the Ferrite Bead Choke this will help the VSWR on 10M ..

Holger could you explain the Reflector element length affect on the antenna, Also the % Difference between Driven & Reflector affect on antenna and the Tip Spacing effects on antenna.

Thanks.

I hope to see you on 40m soon for a longer chat about the antenna.

Regards,

Jim M0CKE

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
>
> Hello Tony,
> sure they can be stacked on a tower. I have been thinking about
> stacking 4 beams for 20-10m. This doesn't look to difficult by the
> mechanical problems and has an easy feeding.
> But I'm not sure if we are talking about the same. If you mean to
> build your 15-10m wires into the 20m antenna that will probably
not
> work that easy. Here you will have to do some calculations with an
> antenna simulation software before starting.
>
> So please let us know what you are meaning with stacking.
>

> regards Holger
>
> PS. Jim (M0CKE), congrats to find out the problems. Have you
> reinstalled all the other antennas again? tnx for calling me in
the
> CQWW.
>
> --- In hex-beam@yahoogroups.com, "Tony DiCenzo" <tonydicenzo@y...>
> wrote:
> >
> > Is there any reason two smaller hex beams cannot be stacked? I
want
> > to stack a 10-15 hex and a 20m hex on one mast. since the
elements
> > are stacked in the 5B hex, I believe it will not cause undue
> > interference. But will appreciate any insights.
> >
> > 73,
> >
> > Tony KX1G
> >
> > KX1G@P...

2189. Re: Basic info please!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-02 08:43:24 UTC
From: m0cke
Topic: 2187 Message: 2189

Hi Kev,

I've just built a 5 Bander, I can't give you dimentions for the Mono Bander but I can give you information on where to get all the parts for building the beam here in England

Regards,

Jim M0CKE

--- In hex-beam@yahoogroups.com, "kev haworth" <kevh67@y...> wrote:
>
>
> Hi!!
> Just come across the hexbeam on a web page by John Tait
> http://ireland.iol.ie/~bravo/ and am intrigued to find out more and
> maybe home brew a mono bander...
>
> I live right on the edge of a beach, and therefore have excellent
take
> off and a great salt plain for earth.
>
> My problem being is my QTH is very small, a middle terrace 3
bedroom 2
> storey house, with one big advantage, antenna friendly neighbours!!
> the lot is only 20 metres front to back, so big towers are a little
> prohibitive, but my neighbour lets me use his chimney to site a
> rotatable 3 band dipole, which has been fantastic, however, I'd
like
> the edge a monobander would give me....
>
> Would the group be kind enough please to advise me on some
sizes/specs
> to construct a mono band antenna for 20 metres please, as 20 is my
> favoured band, and i'm nearing DXCC after just one years operating.
>
> Best Wishes, and thanks in anticipation
>
> Kev Haworth
> M0TNX / 2E0XTC

2190. Comparisons

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-02 11:14:09 UTC
From: Darren G0TSM
Topic: 2190 Message: 2190

Hi All,
I've been carrying out lots of comparisons between my home brew 5 band hex and various other antennas. I thought the group might be interested in the results.
I tried this using two different radios, an FT1000MP and an IC756pro2. However between S6 and S9 the MP appears to be about 1.5dB per S unit where as my 756pro2 is exactly 2.5dB per S unit from S1-9 so I used the 756 for the S meter readings.
The Hex is a 5 band version using insulated wire mounted with the 15M element @6.5M. This was compared to a rotary 10/15/20m dipole also at 6.5M high. The antenna separation was 30M. The SWR on all 5 bands is below 1.5:1

10M Hex is 1 S unit up on dipole on front and 1 S unit down on the back side. So you could say it has roughly 2.5dB gain with 5dB F/B.
The Hex is also 1.5 S units down on a 3 element 10m monobander placed at the same height so it confirms the hex's gain theory i suppose. I tried to mount the monobander under the Hex but it screwed up the swr on all the other bands except when it was mounted at 90deg but I'll leave that as another project.

15M Hex is 1 S unit up on dipole on front and same signal on back, so needs some tweaking here.

20M Hex is 2 S units up on dipole (suppose due to losses in trap on dipole) and signals are 5-6 S units down on back.

12/17M were compared to a Windom @ 40ft and 90% of the time the Hex was better than the Windom and often the Hex was hearing stuff that was unreadable on the Windom. On 17 and 12M there are lots of big lobes and deeps nulls on the Windom.
When trying F/B to a local station 17M seemed about 5-6 S units down on the back where as 12M was about 2 down.

I had a good chance to play with the Hex during CQWW and compared it to a CB vertical mounted on a 6M mast and also a 15M sloping dipole with the highest point @12M high. The signals were about the same with the exception that the Hex was 2 S units up to North America on both 10 and 15M.

The biggest surprise was on 20M, usually I use the Windom as my 20M antenna and I was amazed to find that a VK6 was barely readable on the Windom but was 9+5 on the Hex. The same went for KH7X, no doubt again due to the lobes and nulls on the Windom.

You can draw your own conclusions from these non scientific tests, but I am sure my Hex could be optimised better. From my point of view to have an antenna where the wingspan is less than 60% than that of a dipole and still have some gain over it cannot be a bad thing.

Darren G0TSM

2191. Re: [hex-beam] Digest Number 611

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-02 18:04:45 UTC
From: tony dicenzo
Topic: 2191 Message: 2191

Thanks for the encouraging replys. To clarify what I intend to do, I have two Hex Beams, a 20m mono, and a 10-15. I intend to place them on top of each other on a mast and feed them with separate coax.

The mast will be on top of a flat room, appropriately guyed with steel cable.

They will be turned with a rotator mounted below the beams.

Mast will probably be 20' above the room max because of city code.

73,
Tony KX1G

Do you Yahoo!?
Check out the new Yahoo! Front Page. www.yahoo.com/a

[Non-text portions of this message have been removed]

2192. Re: Comparisons

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-02 19:42:04 UTC
From: w4wb
Topic: 2190 Message: 2192

Darren,

Tnx for sharing your results. I find that your 1000MP S-meter seems to be off. I have measured the calibration of two MPs and both were essentially the same. The scale is in 1/2 S-unit increments. Using lab test gear, the S-unit scale was correct (6 dB per S-unit) from about S-3 to 20/9. Above and below that, the value changed a bit. I have no experience with the PROII. I also note that the FT-8447 has perhaps the worst S-meter in the world!
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
> Hi All,
> I've been carrying out lots of comparisons between my home brew 5 band hex
> and various other antennas. I thought the group might be interested in the
> results.
> I tried this using two different radios, an FT1000MP and an IC756pro2.
> However between S6 and S9 the MP appears to be about 1.5dB per S unit where
> as my 756pro2 is exactly 2.5dB per S unit from S1-9 so I used the 756 for
> the S meter readings.
> The Hex is a 5 band version using insulated wire mounted with the 15M
> element @6.5M. This was compared to a rotary 10/15/20m dipole also at 6.5M
> high. The antenna separation was 30M. The SWR on all 5 bands is below 1.5:1
>
> 10M Hex is 1 S unit up on dipole on front and 1 S unit down on the back
> side. So you could say it has roughly 2.5dB gain with 5dB F/B.
> The Hex is also 1.5 S units down on a 3 element 10m monobander placed at
> the same height so it confirms the hex's gain theory i suppose. I tried to
> mount the monobander under the Hex but it screwed up the swr on all the
> other bands except when it was mounted at 90deg but I'll leave that as
> another project.

>
> 15M Hex is 1 S unit up on dipole on front and same signal on back, so needs
> some tweaking here.
>
> 20M Hex is 2 S units up on dipole (suppose due to losses in trap on dipole)
> and signals are 5-6 S units down on back.
>
> 12/17M were compared to a Windom @ 40ft and 90% of the time the Hex was
> better than the Windom and often the Hex was hearing stuff that was
> unreadable on the Windom. On 17 and 12M there are lots of big lobes and
> deeps nulls on the Windom.
> When trying F/B to a local station 17M seemed about 5-6 S units down on the
> back where as 12M was about 2 down.
>
> I had a good chance to play with the Hex during CQWW and compared it to a
> CB vertical mounted on a 6M mast and also a 15M sloping dipole with the
> highest point @12M high. The signals were about the same with the exception
> that the Hex was 2 S units up to North America on both 10 and 15M.
>
> The biggest surprise was on 20M, usually I use the Windom as my 20M antenna
> and I was amazed to find that a VK6 was barely readable on the Windom but
> was 9+5 on the Hex. The same went for KH7X, no doubt again due to the lobes
> and nulls on the Windom.
>
> You can draw your own conclusions from these non scientific tests, but I am
> sure my Hex could be optimised better. From my point of view to have an
> antenna where the wingspan is less than 60% than that of a dipole and still
> have some gain over it cannot be a bad thing.
>
> Darren G0TSM

2193. Comparisions(Any diference between a rotary dipole and HExbeam 5i??

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 00:58:26 UTC
From: ct2itz
Topic: 2193 Message: 2193

Hi Darren,
I have order a HEXbeam 5i, and havent received yet, may be tomorrow
it will be here.

One thing i am sure , i have a rotary dipole with 2 traps
on both sides,(12..17..40), it have cost me only 200 USD with
shipping and the performance is excelent (also on 10 and 20 meters)...
I worked with it on CQ WW SSB and reports were always good (Low
Power).
Can someone explain to me: is there any REAL DIFERENCE BETWEEN
PERFORMANCE (REAL)OF A 1000 USD ANTENNA AND A 200???

Darren thank you for your studies..and keep giving us your
conclusions...
Thanks
Paulo

2194. Re: Comparisions(Any diference between a rotary dipole and HExbeam 5i??

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 06:30:50 UTC
From: w4wb
Topic: 2193 Message: 2194

Hi Paulo,

I really don't understand why you keep asking the same basic question over and over. (He has asked off the list too.) Now that you will have the antenna for evaluation yourself very soon, you can make your own mind up on the performance difference. However, if you report that your rotary dipole performs as well as the Hex-Beam, then ... well I just don't believe you will.

When you assemble the antenna, pay close attention to the details in the instructions. Run the coax as shown. Put the ferrite beads on the coax as has been explained to you previously. Remember that they should be located just below the base of the Hex-Beam.

As one old song says, "Don't Worry, Be Happy!" My guess is that you will be thrilled at the improvement you experience Paulo!

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "ct2itz" <paulo.paixao@n...> wrote:
>
> Hi Darren,
> I have order a HEXbeam 5i, and havent received yet, may be tomorrow
> it will be here.
>
> One thing i am sure , i have a rotary dipole with 2
traps
> on both sides,(12..17..40), it have cost me only 200 USD with
> shipping and the performance is excelent (also on 10 and 20
meters)...
> I worked with it on CQ WW SSB and reports were always good (Low
> Power).
> Can someone explain to me: is there any REAL DIFERENCE BETWEEN
> PERFORMANCE (REAL)OF A 1000 USD ANTENNA AND A 200???
>
> Darren thank you for your studies..and keep giving us your
> conclusions...
> Thanks
> Paulo

2195. Re: [hex-beam] Comparisions(Any diference between a rotary dipole and HExbeam 5i??

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 07:56:23 UTC
From: Darren G0TSM
Topic: 2193 Message: 2195

At 00:58 03/11/2004, you wrote:

>Hi Darren,
>I have order a HEXbeam 5i, and havent received yet, may be tomorrow
>it will be here.
>
>One thing i am sure , i have a rotary dipole with 2 traps
>on both sides,(12..17..40), it have cost me only 200 USD with
>shipping and the performance is excelent (also on 10 and 20 meters)...
>I worked with it on CQ WW SSB and reports were always good (Low
>Power).

I got good reports too, 1009 stations gave me 5/9 and 1 station gave me 5/7 ;-)

Darren

[Non-text portions of this message have been removed]

2196. Re: [hex-beam] Comparisions(Any diference between a rotary dipole and HExbeam 5i??

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 08:12:18 UTC
From: Jim Balls
Topic: 2193 Message: 2196

Hi Darren,

Have you tried to improve the f/b yet or are you still planning it?

I'm seeing between 3 and 4 lights (about 2S points) on my TS870 f/b but without actually knowing what one light on the 870 is it makes it difficult to know, Also every time I try to experiment the bands are full of QSB which is not much use!

I may need to set up a Sked with a few of you guys in the US to do some f/b tests .. Anyone interested?

Thanks

Jim M0CKE

At 07:56 03/11/2004, you wrote:
>At 00:58 03/11/2004, you wrote:
>
> >Hi Darren,
> >I have order a HEXbeam 5i, and havent received yet, may be tomorrow
> >it will be here.
> >
> >One thing i am sure , i have a rotary dipole with 2 traps
> >on both sides,(12..17..40), it have cost me only 200 USD with
> >shipping and the performance is excelent (also on 10 and 20 meters)...
> >I worked with it on CQ WW SSB and reports were always good (Low
> >Power).
>
>
>I got good reports too, 1009 stations gave me 5/9 and 1 station gave me
>5/7 ;-)
>
>Darren
>
>
>[Non-text portions of this message have been removed]
>
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2197. Re: Basic info please!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 08:12:53 UTC
From: kev haworth
Topic: 2187 Message: 2197

Hi Jim.
I'd really welcome that.. got the main idea of the hex now,
tried engineering composites in Chester for figreglass arms, but they
did seem extremely expensive and only sold in 5 metre lengths, which
would be wasteful..

Any info is greatly appreciated

Kev

2198. Re: [hex-beam] Re: Basic info please!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 08:31:47 UTC
From: Darren G0TSM
Topic: 2187 Message: 2198

Try Sandpiper
http://www.sandpiperaerials.co.uk
1/2" tube is £3.00 per meter. I bought some 1/2" and some 3/4" but the 3/4" isn't flexible enough. The 1/2" seems to be about right to use in one complete length. Actually I used black plastic conduit for my spreaders but they started to bend so I pushed the 1/2" GRP tube down inside the conduit, basically because I'm lazy and didn't want to strip the antenna down.

Darren

At 08:12 03/11/2004, you wrote:

>Hi Jim.
> I'd really welcome that.. got the main idea of the hex now,
>tried engineering composites in Chester for figreglass arms, but they
>did seem extremely expensive and only sold in 5 metre lengths, which
>would be wasteful..
>
>
>Any info is greatly appreciated
>
>Kev
>
>
>
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> *

> <mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>hex-beam-unsubscribe@yahoogroups.com
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[Non-text portions of this message have been removed]

2199. Tks for Barry W4WB support

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 08:52:23 UTC
From: ct2itz
Topic: 2199 Message: 2199

Hi Barry W4WB

Thank you very much for your concen mounting the antena.
Before buying the Heaxbeam i have search and gatter all fotos and
info i could: i have a Dossier from my dream antenna: the Hexbeam,
This information is mostly from you HEXHAMS in this site and others.
I was so impressed so i bought it: that´s i payed ..here in
Portugal
around 1400 USD for the HEX(antenna, shipping, VAT, Custom Taxes
and,,and,,,)never endind story.You are lucky to live in the
States...
I had very high expectations from this nice antenna ...lets see the
results..
Well one question: is there a special ferrite beads so i can order
today from Palomar Engineers may be.?? Here in Portugal nothing
available...
I am sorry may be my english was not good enough to understand the
study of Darren comparing to rotary dipole.
Tks a lot.....
This "HEXfun"
Paulo
CT2ITZ

2200. Re: Tks for Barry W4WB support

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 12:46:35 UTC
From: w4wb
Topic: 2199 Message: 2200

Hi Paulo,

Nice term ... "HEXfun". I like that one.

On the home page of this site, I put information (in red) about the ferrite beads. You can order from Amidon. Please see http://www.amidoncorp.com/aai_productselection.htm and then click on Ferrite Shielding Larger Beads.
You want the FB-77-1024 (not the -1020). Presently, they are USD2 each. I suggest that you order at least 6 for the antenna feedline. I use this bead for other purposes too and so may you. Since the shipping cost is significant, you might consider ordering some extras. You DO NOT want the Type 43 material for this application. Oddly, some companies sell the Type 43 for this application or sell in-line baluns using it as well. I only note that the Type 43 has been readily available on the surplus market at a very low price.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "ct2itz" <paulo.paixao@n...> wrote:
>
> Hi Barry W4WB
>
> Thank you very much for your concen mounting the antena.
> Before buying the Heaxbeam i have search and gatter all fotos and
> info i could: i have a Dossier from my dream antenna: the Hexbeam,
> This information is mostly from you HEXHAMS in this site and
others.
> I was so impressed so i bought it: that´s i payed ..here in
> Portugal
> around 1400 USD for the HEX(antenna, shipping, VAT, Custom Taxes
> and,,and,,,)never endind story.You are lucky to live in the
> States...
> I had very high expectations from this nice antenna ...lets see the
> results..
> Well one question: is there a special ferrite beads so i can order
> today from Palomar Engineers may be.?? Here in Portugal nothing
> available...
> I am sorry may be my english was not good enough to understand the
> study of Darren comparing to rotary dipole.
> Tks a lot.....
> This "HEXfun"
> Paulo
> CT2ITZ

2201. Re: Comparisions(Any diference between a rotary dipole and HExbeam 5i??

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 12:50:35 UTC
From: w4wb
Topic: 2193 Message: 2201

HI Jim,

I can typically get on from about 2000-2300Z if you would like a sked during this time slot.

Also, have you tried using the NCDXF Beacons? They are a nice resource when testing your antenna.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, Jim Balls <m0cke@b...> wrote:
> Hi Darren,
>
> Have you tried to improve the f/b yet or are you still planning it?
>
> I'm seeing between 3 and 4 lights (about 2S points) on my TS870 f/b but
> without actually knowing what one light on the 870 is it makes it difficult
> to know, Also every time I try to experiment the bands are full of QSB
> which is not much use!
>
> I may need to set up a Sked with a few of you guys in the US to do some f/b
> tests .. Anyone interested?
>
> Thanks
>
> Jim M0CKE
>

2202. Re: Tks for Barry W4WB support

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 15:45:28 UTC
From: t_ashland
Topic: 2199 Message: 2202

Hi Barry,
I have ordered and received 12 FB-77-1024, and I plan on getting my hexbeam moved from my 30 foot tower to a new Aluma crank-up 40 footer this weekend. I see in your post below you recommend at least 6 beads. That is what I plan on using initially. I appreciate your comments about where to mount the "choke" in relationship to the plate. You mentioned you also use these beads for other applications. I assume it is for rf suppression, but can you give us some examples of other applications?
Thanks,
Terry, WK0F

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
>
> Hi Paulo,
>
> Nice term ... "HEXfun". I like that one.
>
> On the home page of this site, I put information (in red) about the
> ferrite beads. You can order from Amidon. Please see
> http://www.amidoncorp.com/aai_productselection.htm and then click on
> Ferrite Shielding Larger Beads.
> You want the FB-77-1024 (not the -1020). Presently, they are USD2
> each. I suggest that you order at least 6 for the antenna feedline.
> I use this bead for other purposes too and so may you. Since the
> shipping cost is significant, you might consider ordering some
> extras. You DO NOT want the Type 43 material for this application.
> Oddly, some companies sell the Type 43 for this application or sell
> in-line baluns using it as well. I only note that the Type 43 has
> been readily available on the surplus market at a very low price.
>
> 73,
> Barry W4WB
>
>
> --- In hex-beam@yahoogroups.com, "ct2itz" <paulo.paixao@n...> wrote:
> >
> > Hi Barry W4WB
> >

> > Thank you very much for your concen mounting the antena.
> > Before buying the Heaxbeam i have search and gatter all fotos
and
> > info i could: i have a Dossier from my dream antenna: the
Hexbeam,
> > This information is mostly from you HEXHAMS in this site and
> others.
> > I was so impressed so i bought it: that´s i payed ..here in
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> > around 1400 USD for the HEX(antenna, shipping, VAT, Custom
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> > I had very high expectations from this nice antenna ...lets see
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> > results..
> > Well one question: is there a special ferrite beads so i can
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> > I am sorry may be my english was not good enough to understand
the
> > study of Darren comparing to rotary dipole.
> > Tks a lot.....
> > This "HEXfun"
> > Paulo
> > CT2ITZ

2203. Re: Basic info please!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 16:02:13 UTC
From: kev haworth
Topic: 2187 Message: 2203

--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
> Try Sandpiper
> http://www.sandpiperaerials.co.uk
> 1/2" tube is £3.00 per meter. I bought some 1/2" and some 3/4" but
the 3/4"
> isn't flexible enough. The 1/2" seems to be about right to use in one
> complete length. Actually I used black plastic conduit for my
spreaders but
> they started to bend so I pushed the 1/2" GRP tube down inside the
conduit,
> basically because I'm lazy and didn't want to strip the antenna down.
>
> Darren
>
>
>
> At 08:12 03/11/2004, you wrote:
>
> >Hi Jim.
> > I'd really welcome that.. got the main idea of the hex now,
> >tried engineering composites in Chester for figreglass arms, but they
> >did seem extremely expensive and only sold in 5 metre lengths, which
> >would be wasteful..
> >
> >
> >Any info is greatly appreciated
> >
> >Kev
> >
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>
>
> [Non-text portions of this message have been removed]
Cheers Darren,
Rang san piper and they have some 4 metre fishing rod
blanks at 4.95 each... sound ideal, also the tip can be removed, and
apparently, is the perfect size for a 2m delta loop...waste not want not.

Been to B&Q today and bought a pack of 10 8 foot bamboo canes for
2.95... looks like these are going to be my prototype, and 15 metres
now looks favourite

Kev

2204. Re: [hex-beam] Comparisions(Any diference between a rotary dipole and HExbeam 5i??

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 15:44:59 UTC
From: Hisashi T Fujinaka
Topic: 2193 Message: 2204

On Wed, 3 Nov 2004, Darren G0TSM wrote:

> At 00:58 03/11/2004, you wrote:
>
> >Hi Darren,
> >I have order a HEXbeam 5i, and havent received yet, may be tomorrow
> >it will be here.
> >
> >One thing i am sure , i have a rotary dipole with 2 traps
> >on both sides,(12..17..40), it have cost me only 200 USD with
> >shipping and the performance is excelent (also on 10 and 20 meters)...
> >I worked with it on CQ WW SSB and reports were always good (Low
> >Power).
>
>
> I got good reports too, 1009 stations gave me 5/9 and 1 station gave me 5/7 ;-)

I'm working 40W into a mismatched vertical and I had to work for over a minute with a couple of guys to get my callsign through.

Everyone gave me a 59. (Contests aren't the time to get accurate signal reports.)

--
Hisashi T Fujinaka - htodd@...
BSEE(6/86) + BSChem(3/95) + BAEnglish(8/95) + MSCS(8/03) + $2.50 = latte

2205. Re: [hex-beam] Re: Basic info please!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 17:31:35 UTC
From: chris
Topic: 2187 Message: 2205

My fishing pole experiment literally exploded. They were crappie poles and most of the flex was in the last 1/3 of the pole. I removed the tip as well. There was no way it was going to meet the 10-15m elements on its way up to the 20m element. So if the poles are very big at the butt end (these were > 1") you might not have any luck. I had the same poles the moxon project uses for spreaders, which I see why they worked good for that since they are fairly stiff.

I did what I should have to begin with and bought fiberglass from max gain. I'll report my hopefully successful config soon.

On Wed, 3 Nov 2004, kev haworth wrote:

>
>
> --- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
> > Try Sandpiper
> > http://www.sandpiperaerials.co.uk
> > 1/2" tube is £3.00 per meter. I bought some 1/2" and some 3/4" but
> the 3/4"
> > isn't flexible enough. The 1/2" seems to be about right to use in one
> > complete length. Actually I used black plastic conduit for my
> spreaders but
> > they started to bend so I pushed the 1/2" GRP tube down inside the
> conduit,
> > basically because I'm lazy and didn't want to strip the antenna down.
> >
> > Darren
> >
> >
> >
> > At 08:12 03/11/2004, you wrote:
> >
> > >Hi Jim.
> > > I'd really welcome that.. got the main idea of the hex now,
> > >tried engineering composites in Chester for figreglass arms, but they
> > >did seem extremely expensive and only sold in 5 metre lengths, which
> > >would be wasteful..
> > >
> > >
> > >Any info is greatly appreciated
> > >
> > >Kev
> > >
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> >
> >
> > [Non-text portions of this message have been removed]
> Cheers Darren,
> Rang san piper and they have some 4 metre fishing rod
> blanks at 4.95 each... sound ideal, also the tip can be removed, and
> apparently, is the perfect size for a 2m delta loop...waste not want not.
>
> Been to B&Q today and bought a pack of 10 8 foot bamboo canes for
> 2.95... looks like these are going to be my prototype, and 15 metres
> now looks favourite
>
> Kev
>
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2206. Re: [hex-beam] Re: Basic info please!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 17:44:30 UTC
From: Jim Balls
Topic: 2187 Message: 2206

Hi Kev

For fishing rods take a look at http://www.jims.org.uk/fishing/poles.htm I
used the 1056-400 take out the tip and just use the first 3 sections ideal
for the 5 bander, £2.99 each ...!

Most of my other parts came from CPC .. will send a list soon as I have time

Jim

At 16:02 03/11/2004, you wrote:

>--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
> > Try Sandpiper
> > <http://www.sandpiperaerials.co.uk>http://www.sandpiperaerials.co.uk
> > 1/2" tube is £3.00 per meter. I bought some 1/2" and some 3/4" but
>the 3/4"
> > isn't flexible enough. The 1/2" seems to be about right to use in one
> > complete length. Actually I used black plastic conduit for my
>spreaders but
> > they started to bend so I pushed the 1/2" GRP tube down inside the
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> > Darren
> >
> >
> >
> > At 08:12 03/11/2004, you wrote:
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> > >Hi Jim.
> > > I'd really welcome that.. got the main idea of the hex now,
> > >tried engineering composites in Chester for figreglass arms, but they
> > >did seem extremely expensive and only sold in 5 metre lengths, which
> > >would be wasteful..
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> > [Non-text portions of this message have been removed]
>Cheers Darren,
> Rang san piper and they have some 4 metre fishing rod
>blanks at 4.95 each... sound ideal, also the tip can be removed, and
>apparently, is the perfect size for a 2m delta loop...waste not want not.
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>Been to B&Q today and bought a pack of 10 8 foot bamboo canes for
>2.95... looks like these are going to be my prototype, and 15 metres
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>

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2207. Re: Use of ferrite beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-03 19:34:58 UTC
From: w4wb
Topic: 2199 Message: 2207

Hi Terry,

Tnx for ur comments. I do use the beads for RFI suppresion of RFI generated by the motor in the various motorized mobile antennas I have. I make 3 loops through a bead and it is quiet (effect of 9 beads). Although not this bead, but the same material, I use it in the speech compressor we make at W4RT Electronics for HF operation. We "team" the bead with a Type 43 bead to handle RFI issues in the VHF and UFH bands. Type 43 is good for VHF and UHF while Type 77 isn't.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "t_ashland" <t_ashland@y...> wrote:
>
> Hi Barry,
> I have ordered and received 12 FB-77-1024, and I plan on getting my
> hexbeam moved from my 30 foot tower to a new Aluma crank-up 40
> footer this weekend. I see in your post below you recommend at
> least 6 beads. That is what I plan on using initially. I
> appreciate your comments about where to mount the "choke" in
> relationship to the plate. You mentioned you also use these beads
> for other applications. I assume it is for rf suppression, but can
> you give us some examples of other applications?
> Thanks,
> Terry, WK0F
>

2208. Re: Basic info please!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-05 17:51:46 UTC
From: kev haworth
Topic: 2187 Message: 2208

Jim!!

Disaster... price hike... 3.69 each...arrrgghhhh

Kev

> Hi Kev
>
> For fishing rods take a look at
http://www.jims.org.uk/fishing/poles.htm I
> used the 1056-400 take out the tip and just use the first 3 sections
ideal
> for the 5 bander, £2.99 each ...!
>
> Most of my other parts came from CPC .. will send a list soon as I
have time
>
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>
> At 16:02 03/11/2004, you wrote:
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> >--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
> > > Try Sandpiper
> > > <http://www.sandpiperaerials.co.uk>http://www.sandpiperaerials.co.uk
> > > 1/2" tube is £3.00 per meter. I bought some 1/2" and some 3/4" but
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> >spreaders but
> > > they started to bend so I pushed the 1/2" GRP tube down inside the
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> >Get unlimited calls to
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<http://groups.yahoo.com/group/hex-beam/>http://groups.yahoo.com/group/hex-beam/

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> > *
> > * To unsubscribe from this group, send an email to:
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> > <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.

2209. Re: [hex-beam] Re: Basic info please!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-05 19:33:20 UTC
From: Jim Balls
Topic: 2187 Message: 2209

still cheap though!

At 17:51 05/11/2004, you wrote:

>Jim!!
>
> Disaster... price hike... 3.69 each...arrrgghhhh
>
>
>Kev
>
>
>
>
> > Hi Kev
> >
> > For fishing rods take a look at
><http://www.jims.org.uk/fishing/poles.htm>http://www.jims.org.uk/fishing/poles.htm
>I
> > used the 1056-400 take out the tip and just use the first 3 sections
>ideal
> > for the 5 bander, £2.99 each ...!
> >
> > Most of my other parts came from CPC .. will send a list soon as I
>have time
> >
> > Jim
> >
> >
> > At 16:02 03/11/2004, you wrote:
> >
> > >--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
> > > > Try Sandpiper
> > > >
> <<http://www.sandpiperaerials.co.uk>http://www.sandpiperaerials.co.uk>http://www.sandpip
eraerials.co.uk
> > > > 1/2" tube is £3.00 per meter. I bought some 1/2" and some 3/4" but
> > >the 3/4"
> > > > isn't flexible enough. The 1/2" seems to be about right to use
>in one
> > > > complete length. Actually I used black plastic conduit for my
> > >spreaders but
> > > > they started to bend so I pushed the 1/2" GRP tube down inside the
> > >conduit,
> > > > basically because I'm lazy and didn't want to strip the antenna

>down.
> > > >
> > > > Darren
> > > >
> > > >
> > > >
> > > > At 08:12 03/11/2004, you wrote:
> > > >
> > > > >Hi Jim.
> > > > > I'd really welcome that.. got the main idea of the hex now,
> > > > >tried engineering composites in Chester for figreglass arms,
>but they
> > > > >did seem extremely expensive and only sold in 5 metre lengths,
>which
> > > > >would be wasteful..
> > > > >
> > > > >
> > > > >Any info is greatly appreciated
> > > > >
> > > > >Kev
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> > > > >Yahoo! Groups Sponsor
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>
> > > Terms of Service.
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > >Cheers Darren,
> > > Rang san piper and they have some 4 metre fishing rod
> > >blanks at 4.95 each... sound ideal, also the tip can be removed, and
> > >apparently, is the perfect size for a 2m delta loop...waste not
>want not.
> > >
> > >Been to B&Q today and bought a pack of 10 8 foot bamboo canes for
> > >2.95... looks like these are going to be my prototype, and 15 metres
> > >now looks favourite
> > >
> > >Kev
> > >
> > >
> > >
> > >
> > >Yahoo! Groups Sponsor
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> ><<http://us.ard.yahoo.com/SIG=129bpt5j3/M=281955.5530326.6602771.3001176/
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26/R=0/SIG=12i4qm0kh/*http://clk.atdmt.com/VON/go/yhxxxvon01900091von/direct/01/&time=1099
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> ><http://us.ard.yahoo.com/SIG=129bpt5j3/M=281955.5530326.6602771.3001176/D
> =groups/S=1705063108:HM/EXP=1099584201/A=2343726/R=1/SIG=12i4qm0kh/*http://clk.atdmt.com
/VON/go/yhxxxvon01900091von/direct/01/&time=1099497801195578>
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> > >
> > > *
> > > * To unsubscribe from this group, send an email to:
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oogroups.com
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3108:HM/EXP=1099763516/A=2372354/R=0/SIG=12id813k2/*https://www.orchardbank.com/hcs/hcsapp
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>click here
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>
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>hex-beam-unsubscribe@ya
hoogroups.com
>
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2210. RE: [hex-beam] can hex beams be stacked?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-06 14:36:59 UTC
From: Mr David Jordan
Topic: 2183 Message: 2210

Yes they can. Heres how
Assuming vertical stack.
Pick a distance 30 to 40 feet apart.
Run equal lenghts of 50 ohm coax to each hex beam.
make sure you keep the feed polarity correct.
You can feed it thru a stackmatch or make your own.
you will need to make a 50:22 ohm transformer out of a
ft-240 #43 core. Look in antenna hndbook on info to
make this transformer. It consist of about 5 trifilar
turns of #14 wire on the core.
Now get 3 spdt relays. for high power use 10A type
12V
The input is default switched to the 50 omh port of
the transformer. The other 2 relays commons are
conected to the 22 ohm port of the transformer. the
NC positions are connected to the 2 antennas.
Depending how you, wire this you can have transformer
in our out. ant 1, ant2, or ant1&2.

If you are stacking inb the horizontal plan do the
same thing but keep spacing 30 feet

K1NQ
--- Kevin Adam <n9iww@...> wrote:

> Yes you cann stack Hex Beams if you search the web
> ou will find photos of
> this been done. With the tower.
>
>
>
> -----Original Message-----
> From: Tony DiCenzo [mailto:tonydicenzo@...]
> Sent: Sunday, October 31, 2004 11:24 AM
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] can hex beams be stacked?
>
>
>
> Is there any reason two smaller hex beams cannot be
> stacked? I want
> to stack a 10-15 hex and a 20m hex on one mast.
> since the elements
> are stacked in the 5B hex, I believe it will not
> cause undue
> interference. But will appreciate any insights.

>
> 73,
>
> Tony KX1G
>
> KX1G@...
>
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> Yahoo! Groups Links
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2211. Re: Basic info please!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-08 21:16:40 UTC
From: kev haworth
Topic: 2187 Message: 2211

ta Jim!

Yes..only a mock/shock horro sort of phrase, many many thanks to you,
and to all the other hx beam members for your help...phase 1 starts
wednesday....Kev

--- In hex-beam@yahoogroups.com, Jim Balls <m0cke@b...> wrote:
> still cheap though!
>
>
> At 17:51 05/11/2004, you wrote:
>
> >Jim!!
> >
> > Disaster... price hike... 3.69 each...arrrgghhhh
> >
> >
> >Kev
> >
> >
> >
> >
> > > Hi Kev
> > >
> > > For fishing rods take a look at
>
><http://www.jims.org.uk/fishing/poles.htm>http://www.jims.org.uk/fishing/poles.htm

> >I
> > > used the 1056-400 take out the tip and just use the first 3 sections
> >ideal
> > > for the 5 bander, £2.99 each ...!
> > >
> > > Most of my other parts came from CPC .. will send a list soon as I
> >have time
> > >
> > > Jim
> > >
> > >
> > > At 16:02 03/11/2004, you wrote:
> > >
> > > >--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
> > > > > Try Sandpiper
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> >
<<http://www.sandpiperaerials.co.uk>http://www.sandpiperaerials.co.uk>http://www.sandpiper

aerials.co.uk
> > > > > 1/2" tube is £3.00 per meter. I bought some 1/2" and some
3/4" but
> > > >the 3/4"
> > > > > isn't flexible enough. The 1/2" seems to be about right to use
> >in one
> > > > > complete length. Actually I used black plastic conduit for my
> > > >spreaders but
> > > > > they started to bend so I pushed the 1/2" GRP tube down
inside the
> > > >conduit,
> > > > > basically because I'm lazy and didn't want to strip the antenna
> >down.
> > > > >
> > > > > Darren
> > > > >
> > > > >
> > > > >
> > > > > At 08:12 03/11/2004, you wrote:
> > > > >
> > > > > >Hi Jim.
> > > > > > I'd really welcome that.. got the main idea of the
hex now,
> > > > > >tried engineering composites in Chester for figreglass arms,
> >but they
> > > > > >did seem extremely expensive and only sold in 5 metre lengths,
> >which
> > > > > >would be wasteful..
> > > > > >
> > > > > >
> > > > > >Any info is greatly appreciated
> > > > > >
> > > > > >Kev
> > > > > >
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><mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>hex-beam

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> > > > > [Non-text portions of this message have been removed]
> > > >Cheers Darren,
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> > > >blanks at 4.95 each... sound ideal, also the tip can be

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> > > >apparently, is the perfect size for a 2m delta loop...waste not
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> > > >Been to B&Q today and bought a pack of 10 8 foot bamboo canes for
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9bpt5j3/M=281955.5530326.6602771.3001176/D=groups/S=1705063108:HM/EXP=1099584201/A=2343726
/R=0/SIG=12i4qm0kh/*http://clk.atdmt.com/VON/go/yhxxxvon01900091von/direct/01/&time=109949
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groups.yahoo.com/group/hex-beam/
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2212. More Basic Info Please

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-08 22:40:43 UTC
From: gerry_schjelderup
Topic: 2212 Message: 2212

After one false start, I am assembling a 5 band hex beam according to the specs of DL7IO. Although the procedures should apply to all models, what is standard practice when one begins to adjust element lengths on the driven, what is done regarding the corresponding reflector?
Gerry KC0MSX

2213. Re: [hex-beam] More Basic Info Please

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-09 07:43:30 UTC
From: Jim Balls
Topic: 2212 Message: 2213

Hi Gerry,

I've been trimming my hex for the last few weekends, I have not cut off the excess wire for a start I have just folded the wire back (Un-insulated) and tied the tail / element together with ties / tape.

I started by shortening the driven elements, (20M first) some by as much as 15cms each, but then I noticed the F/B had gone, so then I shortened the reflector to 3% longer than the driven, this then gave me the f/b but i noticed the elements were then resonant further up the band, so I lengthened each by the % calculated to shift them by the amount required and that worked.

I'm seeing about 12db F/B with a local station on 20/15/10 and about 18db f/b on 17/12

I'm no expert and this has been a big learning curve for me, I've found the spreadsheet invaluable in the calculations of the element lengths, trimming length calculations and to get the Reflector 3% longer than the driven.

Trial and error, every time I changed something I put the antenna back to 25' to test it.

Not sure what wire you are using etc

So start with 20M work down but be careful as each band effects others so get each band close then move to the next one, final small trimming at the end to get the desired results.

I hope the above is helpful and can be backed up by other home brewers.

Regards,

Jim M0CKE

At 22:40 08/11/2004, you wrote:

>After one false start, I am assembling a 5 band hex beam according to
>the specs of DL7IO. Although the procedures should apply to all
>models, what is standard practice when one begins to adjust element
>lengths on the driven, what is done regarding the corresponding
>reflector?
>Gerry KC0MSX
>
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2214. Re: More Basic Info Please

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-09 09:08:08 UTC
From: gerry_schjelderup
Topic: 2212 Message: 2214

Hi Jim,
Thanks for the note. I started out using insulated wire and surmised that the 20 m band would require a 15 cm reduction. I then determined a shortening ratio, (I think it was something like .9725) and calculated a similar shortening to the other bands, and on the reflector elements also. I also used the same shortening ratio and applied that to the tip space. Although I only got to cutting and mounting the 20 meter element, I gave up on the insulated wire approach because there were to many things I was unsure were correct. I had also planned on doing only 3 bands, 20, 17, and 10, as it seemed that the fishing pole spreaders were too stiff near the hub and seemed to leave the higher band elements too close together. The wire I am using now is copper coated steel and I have only mounted the 20 m element so far. It seems that thinness of the spreader tips are having some difficulty in keeping the elements sufficiently taut. Don't know yet how I will resolve that--or live with it.
I must admit this hex project does pose some difficulties, but it has been fun and should prove to be a learning experience. I know the hex beam has real merit as I am pleased with 10 meter one that I have had up for several months. Thanks again for the note. 73
Gerry KC0MSX

--- In hex-beam@yahoogroups.com, Jim Balls <m0cke@b...> wrote:
> Hi Gerry,
>
> I've been trimming my hex for the last few weekends, I have not cut off the
> excess wire for a start I have just folded the wire back (Un-insulated) and
> tied the tail / element together with ties / tape.
>
> I started by shortening the driven elements, (20M first) some by as much as
> 15cms each, but then I noticed the F/B had gone, so then I shortened the
> reflector to 3% longer than the driven, this then gave me the f/b but i
> noticed the elements were then resonant further up the band, so I
> lengthened each by the % calculated to shift them by the amount required
> and that worked.
>
> I'm seeing about 12db F/B with a local station on 20/15/10 and about 18db
> f/b on 17/12

>
> I'm no expert and this has been a big learning curve for me, I've
found the
> spreadsheet invaluable in the calculations of the element lengths,
trimming
> length calculations and to get the Reflector 3% longer than the
driven.
>
> Trial and error, every time I changed something I put the antenna
back to
> 25' to test it.
>
> Not sure what wire you are using etc
>
> So start with 20M work down but be careful as each band effects
others so
> get each band close then move to the next one, final small trimming
at the
> end to get the desired results.
>
> I hope the above is helpful and can be backed up by other home
brewers.
>
> Regards,
>
> Jim M0CKE
>
> At 22:40 08/11/2004, you wrote:
>
> >After one false start, I am assembling a 5 band hex beam according
to
> >the specs of DL7IO. Although the procedures should apply to all
> >models, what is standard practice when one begins to adjust element
> >lengths on the driven, what is done regarding the corresponding
> >reflector?
> >Gerry KC0MSX
> >
> >
> >
> >
> >
> >
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>
><http://us.ard.yahoo.com/SIG=129o5tob9/M=295196.4901138.6071305.30011
76/D=groups/S=1705063108:HM/EXP=1100040071/A=2128215/R=0/SIG=10se96mf6
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2215. pvc construction

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-09 23:31:33 UTC
From: dennis
Topic: 2215 Message: 2215

I'm thinking of trying to use pvc pipe to build the 5 band hex. Has anyone else tried this?, if so let me know what size you used etc.
Dennis

2216. 6M Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-10 02:46:27 UTC
From: worsr
Topic: 2216 Message: 2216

I have just put up a 6M hex. The SWR seems high to me. The best I can get is 1.7:1 at the bottom end of the band. above 52.5 MHz, it is about 2.5:1. Antenna is about 22 feet up not near anything metal. Swapping coax didn't help. Does anyone have any experience with this antenna that could lend expertise?

Thanks!

Mike, W0RSR

2217. Re: [hex-beam] pvc construction

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-10 06:16:33 UTC
From: Darren G0TSM
Topic: 2215 Message: 2217

I used 1" PVC conduit for the spreaders. After a while the whole antenna started to sag down with the 10M element ending up about 4" below it's feed point. I pushed 1/2" GRP tube into the conduit to reshape it.

Darren

At 23:31 09/11/2004, you wrote:

>I'm thinking of trying to use pvc pipe to build the 5 band hex. Has anyone
>else tried this?, if so let me know what size you used etc.
> Dennis
>
>

[Non-text portions of this message have been removed]

2218. Centre Post Ideas

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-10 10:05:39 UTC
From: David Douglass
Topic: 2218 Message: 2218

Hi All,

I'm starting to assemble the bits and pieces for my 3rd 5-Band Homebrew HexBeam.

Unlike the previous 2, I'd planned to make this a little more robust and was thinking about installing the feeder inside the centre post, as oppossed to running down the front of the PVC pipe. By feeder, I mean the twin line between the elements and not the actual coax.

Has anyone succesfully achived this ?? and if anyone has some tips or photo's of how they managed it, I'd ;ove to hear from you.

Like my previous 2 Hex Antennas, I will be using 16mm Tasmania Oak Dowling for spreaders, but this time around they will have a outer PVC sleeve, for extra strength and durability. I've even gone to the expense or ordering some real 14AWG antenna wire from the US for this one, as opposed to using speaker wire.

Regards All

David, VK2NU (ex VK2DPD)

2219. Re: pvc construction

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-11 01:26:27 UTC
From: gerry_schjelderup
Topic: 2215 Message: 2219

Dennis,
I used 1/2" pvc pipe to do a 10 meter beam that has worked out
fine however it has only been up for 3-4 months. A larger antenna
would warrant using thicker pvc, however, in any case, it would be
wise to give it a good coat of paint to prevent deterioration from
the sun.
Gerry KC0MSX
--- In hex-beam@yahoogroups.com, dennis <huckfinn1963@c...> wrote:
>
> I'm thinking of trying to use pvc pipe to build the 5 band hex.
Has anyone
> else tried this?, if so let me know what size you used etc.
> Dennis

2220. 6m HEX

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-11 02:47:06 UTC
From: worsr
Topic: 2220 Message: 2220

Does anyone on the SIG have experience with the 6M monoband Hex? I put one up, but SWR seems higher than I would like. The lowest I can get is 1.7:1 at the lower end of 6M. Above 52.5 it is above 2.7:1. Antenna is not near any metal objects and is about 23 feet up in the air. I've tried different coax with same results.

Thanks for any ideas.

--Mike, W0RSR

[Non-text portions of this message have been removed]

2221. Re: [hex-beam] 6m HEX

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-11 06:21:38 UTC
From: Darren G0TSM
Topic: 2220 Message: 2221

What are the lengths of the elements and type/size of wire used?

Darren

At 02:47 11/11/2004, you wrote:
>Does anyone on the SIG have experience with the 6M monoband Hex? I put
>one up, but SWR seems higher than I would like. The lowest I can get is
>1.7:1 at the lower end of 6M. Above 52.5 it is above 2.7:1. Antenna is
>not near any metal objects and is about 23 feet up in the air. I've tried
>different coax with same results.
>
>Thanks for any ideas.
>
>--Mike, W0RSR
>
>[Non-text portions of this message have been removed]
>
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><http://us.ard.yahoo.com/SIG=129rqqtid/M=298184.5584357.6650215.3001176/D=groups/S=1705063108:HM/EXP=1100227635/A=2426682/R=0/SIG=11edksnhv/*http://www.netflix.com/Default?mqso=60185402>
>18f8df70.jpg
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>----------
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> *
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> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2222. Re: Centre Post Ideas

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-12 10:58:59 UTC
From: dl7io
Topic: 2218 Message: 2222

Hello David,
except of the test/prototype versions all my homemade beams came with the feeding inside the center post.
This will take you some time and passion!
I'm doing it the following way:
The holes in the center post have to be drilled.
For connecting I'm using screws from brass because they can be ironed to the wire of the low impedance line. The wire I use for the feeding line is insulated. I cut of about 1 cm of the pvc at the points where I connect the wire elements and iron the brass screw to the devided flexible copper. Remember that you need a few millimeter more feeding line than distance between the holes!
Once you have prepared the two lines put the screws from outside into the holes and fix the feeding line together with cable strips or tape but so, that the wires are as close together as possible except where the screws are.
For the screws length you should check the inner diameter of the center post. My center posts are from fiberglas (the same as my spreaders) and have 34mm inner diameter. I use screws with 16-20mm length from brass.
Before inserting the feeding line connect your coax cable as well.

Than put the construction inside the tube and use the holes for the reflecter connection with a small screwdriver to get the screws with the feeding line into their holes. Once you got a screws in the hole put a nut on it but not strong to be able to move the wire a bit. If both screws are in place you can tighten the screws using spring washers.

For the reflector side I made a "special tool" out of a 3mm thick copper element. At one end I have bended it like a clamp to hold a screw. This is used to get the reflector screws into position.

For connecting the wire I have made special nuts from brass very similiar to those Traffie is using. I still have a few thousend left if you like. They are seen on the "parts" site.
www.dl7io.de/reflectedw_parts.html
Before I had those the wire often did break because it was bended here.

I have made a 5 band feeding system last week for a friend. This is ready but this weekend I will do one for a 40 m version. I can make a few fotos from this process if you like.

regards Holger
www.dl7io.de

2223. Re: Comparisions(Any diference between a rotary dipole and HExbeam 5i??

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-14 05:57:27 UTC
From: aep003
Topic: 2193 Message: 2223

Barry,

What's this stuff about ferrite beads ?

I've had a hex beam up for over a year but never heard anything about
using ferrite beads.

Regards,

Art
NF1A

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
>
> Hi Paulo,
>
> I really don't understand why you keep asking the same basic
question
> over and over. (He has asked off the list too.) Now that you will
> have the antenna for evaluation yourself very soon, you can make
your
> own mind up on the performance difference. However, if you report
> that your rotary dipole performs as well as the Hex-Beam, then ...
> well I just don't believe you will.
>
> When you assemble the antenna, pay close attention to the details
in
> the instructions. Run the coax as shown. Put the ferrite beads on
> the coax as has been explained to you previously. Remember that
they
> should be located just below the base of the Hex-Beam.
>
> As one old song says, "Don't Worry, Be Happy!" My guess is that
you
> will be thrilled at the improvement you experience Paulo!
>
> 73,
> Barry W4WB
>
> --- In hex-beam@yahoogroups.com, "ct2itz" <paulo.paixao@n...> wrote:
> >
> > Hi Darren,
> > I have order a HEXbeam 5i, and havent received yet, may be
tomorrow
> > it will be here.

> >
> > One thing i am sure , i have a rotary dipole with 2
> traps
> > on both sides,(12..17..40), it have cost me only 200 USD with
> > shipping and the performance is excelent (also on 10 and 20
> meters)...
> > I worked with it on CQ WW SSB and reports were always good (Low
> > Power).
> > Can someone explain to me: is there any REAL DIFERENCE BETWEEN
> > PERFORMANCE (REAL)OF A 1000 USD ANTENNA AND A 200???
> >
> > Darren thank you for your studies..and keep giving us your
> > conclusions...
> > Thanks
> > Paulo

2224. Re: Comparisions(Any diference between a rotary dipole and HExbeam 5i??

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-14 16:37:38 UTC
From: w4wb
Topic: 2193 Message: 2224

--- In hex-beam@yahoogroups.com, "aep003" <aep003@y...> wrote:
>
> Barry,
>
> What's this stuff about ferrite beads ?
>
> I've had a hex beam up for over a year but never heard anything
about
> using ferrite beads.
>
> Regards,
>
> Art
> NF1A
>
Hi Art,

Purpose is to mitigate any common-mode current that may be present upon the outside of the coax shield, thereby keeping it from radiating. A simple test to see if you have the problem is to take a section of coax several meters long. Pick a freq and measure the SWR with your present feed line. Now insert the extra coax between your present coax and the SWR meter (making the feed line longer). Measure the SWR again. If it isn't the same value, then you have a common-mode current. See Walt's book entitled "Reflections II" for a more complete discussion. When you eliminate the common-mode current, the SWR is the same value independent of where you measure along the feed line.

73,
Barry W4WB

2225. Re: Comparisions(Any diference between a rotary dipole and HExbeam 5i??

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-14 23:20:18 UTC
From: aep003
Topic: 2193 Message: 2225

Thank for the info Barry.

Art

In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
>
> --- In hex-beam@yahoogroups.com, "aep003" <aep003@y...> wrote:
> >
> > Barry,
> >
> > What's this stuff about ferrite beads ?
> >
> > I've had a hex beam up for over a year but never heard anything
> about
> > using ferrite beads.
> >
> > Regards,
> >
> > Art
> > NF1A
> >
> Hi Art,
>
> Purpose is to mitigate any common-mode current that may be present
> upon the outside of the coax shield, thereby keeping it from
> radiating. A simple test to see if you have the problem is to take
a
> section of coax several meters long. Pick a freq and measure the
SWR
> with your present feed line. Now insert the extra coax between
your
> present coax and the SWR meter (making the feed line longer).
> Measure the SWR again. If it isn't the same value, then you have a
> common-mode current. See Walt's book entitled "Reflections II" for
a
> more complete discussion. When you eliminate the common-mode
current,
> the SWR is the same value independent of where you measure along
the
> feed line.
>
> 73,
> Barry W4WB

2226. To Barry: Commond Mode current and baloon

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-15 02:10:42 UTC
From: ct2itz
Topic: 2226 Message: 2226

Dear Collegues ,
I have started mounyting my Hexbean tthe Heaxbeam,minwhile due to
tothis citical situations regarding Comom Mode Current, i have order
a commomd Mode filter from Wimo from Germany to solver

Can i put i under the feedlinem and if i have it i do not need the
Beads,but can i put a Choke baloon with about 10 turns , below the
filter??
Tkas for your help,,,,
Paulo
CT2ITZ

2227. Re: To Barry: Commond Mode current and baloon

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-15 04:35:41 UTC
From: w4wb
Topic: 2226 Message: 2227

Hi Paulo,

I looked at the Wimo site, but not sure which balun you are buying. It should be 1:1 and use Type 73, 77 or F materials. I use the DX Engineering balun (http://www.dxengineering.com/pdf/P-Balun.pdf) with my GAP Titan vertical antenna. Works fine.

Locate this balun just under the hub (or base plate) of the Hex-Beam. You do not need the beads or should you attempt to use a coax choke. In other words, just use the Wimo balun.

The Type 77 beads work far better than the coax RF choke.

Keeps us posted on your progress.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "ct2itz" <paulo.paixao@n...> wrote:
>
> Dear Collegues ,
> I have started mounyting my Hexbean tthe Heaxbeam,minwhile due to
> tothis citical situations regarding Comom Mode Current, i have
order
> a commomd Mode filter from Wimo from Germany to solver
>
> Can i put i under the feedlinem and if i have it i do not need the
> Beads,but can i put a Choke baloon with about 10 turns , below
the
> filter??
> Tkas for your help,,,,
> Paulo
> CT2ITZ

2228. Re: [hex-beam] pvc construction

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-11 01:28:45 UTC
From: ALLEN CLARK
Topic: 2215 Message: 2228

YES I HAVE BUILT A FIVE BAND USING UV ELECTRIC PVC AT LOWE'S.
I HAVE TO PUT TOGETHER SOME INFORMATION AND EMAIL THEM TO YOU DENNIS
I HAVE ABOUT $70 IN MY
MY E-MAIL IS aclark35@...
I HAVE NOT MOUND IT ON TOP OF MY TOWER, NEED TO MOUND MY ROTOR AT THE BOTTOM TO TURN THE TOWER
73 W8ALC
ALLEN
----- Original Message -----
From: dennis
To: hex-beam@yahoogroups.com
Sent: Tuesday, November 09, 2004 6:31 PM
Subject: [hex-beam] pvc construction

I'm thinking of trying to use pvc pipe to build the 5 band hex. Has anyone
else tried this?, if so let me know what size you used etc.
Dennis

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[Non-text portions of this message have been removed]

2229. To Barry and friends : 6 Amidon FB-77-1024 beads V Dx Eng Balun; Which the best?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-16 00:10:22 UTC
From: ct2itz
Topic: 2229 Message: 2229

A commonly asked question is what material should be used for an RF choke. For the HF bands, the best material to use is Type 77 (or 73) ferrite beads. About 6 Amidon FB-77-1024 beads side over RG-213 and can be held in place with heat shrink. (Do not attempt to glue the beads together.) This balun should be located just below the base of the Hex-Beam, never within the elements or above it. Type 43 material is not appropriate for HF, but is the material of choice for VHF and UHF. A coax balun is an alternative, but suffers less attenutation and poorer bandwidth.

This is what we have in our home page can anybody help in this real confision??????
Thanks vert much
Paulo

PS I would like very much MR. Mike to gove his opinion, is it possible for you to writr some words to your customers regading this subject???
I will wait...never had a help from you even when requested..i am sorry but i had to say this. We pay very expensive for this small antenna...nevertheless The construction company is not active and help , why???
I want to thank to W6HB, Dough; Barry, other colleges that had really very helpfull, much more than the Constructer..What is wrong with this servive after sale, why you do not hel the customes, every tine i needd to make a call that is 30 USD,why, why, why ?????
Paulo
CT2ITZ

2230. Rotary Dipole

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-15 19:42:44 UTC
From: Stuart Bloom
Topic: 2230 Message: 2230

Hi,
My primary beam antenna is a Cushcraft A3S tri-beam Yagi. It was designed with 3 elements for 10 -15-20 meters. I added the "40 meter stinger kit". This adds additional traps and capacitance hats on the driven element only of the tri-beam. 10, 15, and 20 meters are largely unaffected. What you get is a trapped 40 meter "rotary dipole" up at 50 feet (where my antenna is).

I have direct comparison experience with a 40m dipole at 33 feet. The 40m element on the tri-beam works noticeably better than my dipole. You don't get any front-back gain (since there is no director or reflector for 40m), but you do get some dipole end-fire versus broad-side gain when you rotate the beam for optimum beam pattern and reception. I guess the height / directivity gain outweighs the loss from the traps. I'm happy with it.

I guess a 40m Hex would be really really large. Has anyone built one?

I'm still working on my first hex. Maybe this winter. Our club uses one for field day / emergencies.

73
Stuart
KD5HVO

Do you Yahoo!?
Check out the new Yahoo! Front Page.
www.yahoo.com

2231. Re: pvc construction

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-15 21:22:46 UTC
From: n3gnw
Topic: 2215 Message: 2231

--- In hex-beam@yahoogroups.com, "ALLEN CLARK" <aclark35@c...> wrote:
>
> YES I HAVE BUILT A FIVE BAND USING UV ELECTRIC PVC AT LOWE'S.
> I HAVE TO PUT TOGETHER SOME INFORMATION AND EMAIL THEM TO YOU
DENNIS
> I HAVE ABOUT $70 IN MY
> MY E-MAIL IS aclark35@c...
> I HAVE NOT MOUND IT ON TOP OF MY TOWER, NEED TO MOUND MY ROTOR AT
THE BOTTOM TO TURN THE TOWER
> 73 W8ALC
> ALLEN

Could you post it here for all of us? I have been thinking of using
the same material.

73,
Mark N3GNW

2232. Re: To Barry and friends : 6 Amidon FB-77-1024 beads V Dx Eng Balun; Which the best?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-16 02:32:20 UTC
From: w4wb
Topic: 2229 Message: 2232

Paulo,

What is it that you don't understand about the ferrite beads info I put upon the home page and you cited below?

Mike Traffie has talked to you on the phone and answered many questions you have asked. I know this because he told me so.

Mike does NOT have any email capability and he does NOT monitor this or any other web site. In other words, call him or send him a FAX. Remember, there is a big difference between customer service and "hand holding". If you want hand holding, you should be prepared to pay for it, and not just as telephone charges.

I am glad that several of us have been of help to you Paulo, but you keep asking the same questions over and over, and they have been answered to the extent practicable. I suggest that you just assemble the antenna, attach the coax with the balun, get it up in the air, and enjoy using it. It is easy to assemble, with the help of two friends, in 2-3 hours the first time. One friend and I can put one up or take it down in about an hour since we have some experience. If you have some issues after it is up and tested, then perhaps we can help more, but I expect it will be just fine.

Good luck es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "ct2itz" <paulo.paixao@n...> wrote:
>
> A commonly asked question is what material should be used for an RF
> choke. For the HF bands, the best material to use is Type 77 (or
73)
> ferrite beads. About 6 Amidon FB-77-1024 beads side over RG-213 and
> can be held in place with heat shrink. (Do not attempt to glue the
> beads together.) This balun should be located just below the base
of
> the Hex-Beam, never within the elements or above it. Type 43
material
> is not appropriate for HF, but is the material of choice for VHF
and
> UHF. A coax balun is an alternative, but suffers less attenutation
> and poorer bandwidth.
>
> This is what we have in our home page can anybody help in this real
> confision??????

> Thanks vert much
> Paulo
>
> PS I would like very much MR. Mike to gove his opinion, is it
> possible for you to writr some words to your customers regading
this
> subject???
> I will wait...never had a help from you even when requested..i am
> sorry but i had to say this. We pay very expensive for this small
> antenna...nevertheless The construction company is not active and
> help , why???
> I want to thank to W6HB, Dough; Barry, other colleges that had
really
> very helpfull, much more than the Constructer..What is wrong with
> this servive after sale, why you do not hel the customes, every
tine
> i needd to make a call that is 30 USD,why, why, why ?????
> Paulo
> CT2ITZ

2233. Re: Rotary Dipole

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-16 14:45:31 UTC
From: dl7io
Topic: 2230 Message: 2233

Hello Stuart,
I have built 4 different designs starting from a 40m monobander via 40/30m, 40/30/20m to 40/30/20/17m which is currently in use.
Details and EZNEC simulation of the designs can be found on my webpage.
The diameter is 12m. The reflector of the A3S is about 11m. So for a 40m beam it is small. The weight of my mechanically redesigned 40m version is about 17kg now (bigger sized base plate).
We are currently discussing a 80m version for our contest station.
This will have 24m diameter and I would design it for 80/40/30m
regards Holger
www.dl7io.de

--- In hex-beam@yahoogroups.com, Stuart Bloom <sbbloom69@y...> wrote:
>
> Hi,
> My primary beam antenna is a Cushcraft A3S tri-beam
> Yagi. It was designed with 3 elements for 10 -15-20
> meters. I added the "40 meter stinger kit". This
> adds additional traps and capacitance hats on the
> driven element only of the tri-beam. 10, 15, and 20
> meters are largely unaffected. What you get is a
> trapped 40 meter "rotary dipole" up at 50 feet (where
> my antenna is).
>
> I have direct comparison experience with a 40m dipole
> at 33 feet. The 40m element on the tri-beam works
> noticeably better than my dipole. You don't get any
> front-back gain (since there is no director or
> reflector for 40m), but you do get some dipole
> end-fire versus broad-side gain when you rotate the
> beam for optimum beam pattern and reception. I guess
> the height / directivity gain outweighs the loss from
> the traps. I'm happy with it.
>
> I guess a 40m Hex would be really really large. Has
> anyone built one?
>
> I'm still working on my first hex. Maybe this winter.
> Our club uses one for field day / emergencies.
>
> 73
> Stuart
> KD5HVO
>

>
>
>
> _____
> Do you Yahoo!?
> Check out the new Yahoo! Front Page.
> www.yahoo.com

2234. Re: [hex-beam] Re: pvc construction

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-16 07:54:28 UTC
From: k1eg@matrix-computers.com
Topic: 2215 Message: 2234

Yes please post it here or as a file on hex-beam site.

Mike/K1EG

----- Original Message -----
From: "n3gnw" <n3gnw@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, November 15, 2004 3:22 PM
Subject: [hex-beam] Re: pvc construction

>
>
>
> --- In hex-beam@yahoogroups.com, "ALLEN CLARK" <aclark35@c...> wrote:
> >
> > YES I HAVE BUILT A FIVE BAND USING UV ELECTRIC PVC AT LOWE'S.
> > I HAVE TO PUT TOGETHER SOME INFORMATION AND EMAIL THEM TO YOU
> DENNIS
> > I HAVE ABOUT $70 IN MY
> > MY E-MAIL IS aclark35@c...
> > I HAVE NOT MOUND IT ON TOP OF MY TOWER, NEED TO MOUND MY ROTOR AT
> THE BOTTOM TO TURN THE TOWER
> > 73 W8ALC
> > ALLEN
>
> Could you post it here for all of us? I have been thinking of using
> the same material.
>
> 73,
> Mark N3GNW
>
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> Yahoo! Groups Links
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2235. Is there a HEX customer satisfaction Program?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-16 17:24:26 UTC
From: ct2itz
Topic: 2235 Message: 2235

Mr. Barry, let me tell you some words that might be useful;
1) i were not born with all our capacities , speacillay to bild this Antenna;
2) Customer satisfaction programe??: Call TGM in Canada..and speak to the owner and see how friendly he is..; Call In Germany the manufacturer of Spiderbeam. he answer back in moments....call Optibeam and see MR. Thomas giving 100 Customer Service... Why not in Hexbeam??

3)When i bought the antenna MR. Mike told me that the best shock was several turns of coax in a bottle of softdrink..so we do use the same info...and when i buy a 2 element beam for mores than 1200 USD i expect some help from the person who sold me...or not???

4)I really do not understand why you keep picking om me with hard words,,the only thing i did was asking a question that is not accuratted.
Sorry to disturb you..remenber we are always learning in life, and with this kind of answers ...really do not feel welcome..or understood.

I am a teacher and my previlege is to teach the students who are intrested in learninhg...

Well MR. BARRY iam but i do not ever LOOSE PATIENT WITH THE ONES WHO SEEK FOR MY HELP.
Best 73´
Paulo
CT2ITZ

2236. To Paulo

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-16 18:17:36 UTC
From: John Labutski
Topic: 2236 Message: 2236

I have to appologize for the rest of us here in the states for your being offended. I really think that Barry did not intend to be critical of you.

I know that there is a bit of a language communication problem. Probably Barry would be kind enough to further answer your questions if you asked them to Barry in Spanish or Portugese (I'm sure he's fluent in these languages) that way he could reply directly to you in your choice of languages. This way the detail of your questions would not be lost in the translation. Also that way you could get clear and concise answers to your questions.

I am sure you will be happy with the hexbeam once you get it up and start using it. Its a superb antenna. Also, you are correct about the cost of international telephone calls. The cost of them doesn't bother the aerospace types here in the states but it is quite expensive for us average guys.

Incidentally Barry, here is my direct email address if you wish to comment to me directly. kd6wd@...

73's
John
kd6wd/4

2237. Re: [hex-beam] Is there a HEX customer satisfaction Program?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-17 07:20:43 UTC
From: k1eg@matrix-computers.com
Topic: 2235 Message: 2237

Paulo, Olla, I believe I see what some of the problem is that you are having. I do not speak Portugese but I believe your are having some language problems both on your side and us on this side. Might I suggest that you have a fellow amateur who has a better command of the English language post your question and also do the talking to Mr. Mike so that he may tell you what your looking for in your language so that it is understood.

Many of us that speak English as our native tongue forget that English is the hardest language in the world for people who don't speak it. Being a school teacher I'm sure you probably speak 3 or 4 languages fluently but not English.

So please bear with some of us and maybe these ideas will help you.

Ciao, 73
Mike
K1EG

----- Original Message -----
From: "ct2itz" <paulo.paixao@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, November 16, 2004 11:24 AM
Subject: [hex-beam] Is there a HEX customer satisfaction Program?

Mr. Barry, let me tell you some words that might be useful;
1) i were not born with all our capacities , speacillay to bild this Antenna;
2) Customer satisfaction programe??: Call TGM in Canada..and speak to the owner and see how friendly he is..; Call In Germany the manufacturer of Spiderbeam. he answer back in moments....call Optibeam and see MR. Thomas giving 100 Customer Service... Why not in Hexbeam??

3)When i bought the antenna MR. Mike told me that the best shock was several turns of coax in a bottle of softdrink..so we do use the same info...and when i buy a 2 element beam for mores than 1200 USD i expect some help from the person who sold me...or not???

4)I really do not understand why you keep picking om me with hard words,,the only thing i did was asking a question that is not accuratted.
Sorry to disturb you..remenber we are always learning in life, and with this kind of answers ...really do not feel welcome..or understood.

I am a teacher and my previlege is to teach the students who are intrested in learninhg...

Well MR. BARRY iam but i do not ever LOOSE PATIENT WITH THE ONES WHO SEEK FOR MY HELP.
Best 73?
Paulo
CT2ITZ

Yahoo! Groups Links

2238. English Language Problems!! (May be???)

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-18 00:30:41 UTC
From: ct2itz
Topic: 2238 Message: 2238

Good evenenig to all fell Radio Hams on this excelent Forum.
I do not want to go on with this speech, because i see you do not understand the issue.: There are different information regardinfg the same issue, like the one with Shock..!! What could be a solution, the Constructor could give us a help..
Well every teime i have a problem assembling the antenna i have to make a phone call (intercontinental) that costs me between 30-50 USD depends on the time spent on the home. I could send an e mail..but Traffie Company does not have one..so..please tell me what to do..I reaaly have to thank all the Radio hams that have been so nice to me and had the patient to answer my questions, really THANK YOU, but unfortunely can not say the same about the Constructer.
The antenna is already expensive...more international phone calls.....is this an never ending story..fortunely this Forum exist.
By the way my HEXbeam is registred with Serial number #349
I am sorry having to bring this subject here..but felt really unfair having to spent $$$$ in calls to have assistance, something i am entitle for free....no follow up.....so i think my problem is not the english language...
Take Care and God Bless to you all
CT2ITZ
Paulo

2239. Re: Is there a HEX customer satisfaction Program?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-18 05:26:55 UTC
From: w4wb
Topic: 2235 Message: 2239

Dear Paulo,

I was also a teacher (an university professor in EE) for many years and I agree fully that it is a privilege to teach students who are interested in learning. Problem becomes when the student does not learn and the teacher's patience has been exhausted.

Some of us who have tried to help you are now thinking "If Paulo did not want my answer, then why did Paulo ask me the question?" [For those on the hex-beam list, you should understand that there have been a number of direct emails attempting to help Paulo.]

In the spirit of trying to help you understand the RF choke matter, I will attempt to explain it one more time.

1. There are a variety of ways to suppress the common-mode current. Reading Walt's (W2DU) book entitled "Reflections II" can add greatly to ones understanding. This current is often the source of RFI problems as well as others.

2. You have to select a method and implement it. Don't implement more than one method unless you really understand why you are doing it.

3. The different methods generally do not provide the same performance.

4. The different methods require varying amount of work to implement as well as cost.

5. Example methods. Balun should be located as close to the base of the antenna as practicable.

5.1 No balun, but you adjust the coax length to get the SWR to an acceptable level. This method is rarely used anymore and isn't recommended.

5.2 Coax balun: This comes in two types, one being scrambled wound and the other as layered. Layered is preferred. Only cost is the coax and whatever coil form you use. Performance (frequency range covered and attenuation) is determined by coax type, coil diameter, and number of turns. It is not as easy as one might think to "get it right" making this type balun. See the files area for a document on this subject that contains some useful guidance. [Files -> Publications -> airbalun.html] Many people suggest using the rather common coax RF choke, as Traffie mentioned to you, because it will work to some level. A little coax and a piece of PCV as the form

makes it easy enough to build, if you get the number of turns and diameter correct. FWIW, I understand Traffie will be soon stocking the Type 77 beads to make it easier for customers to acquire them. However, for those of us living in NA, it is easy to get the beads from Amidon ... just call 800-898-1883, and they accept small orders and your credit card. For folks not in NA, it can be more difficult so it is common to suggest the coax balun. I certainly have for people in really remote places where just having coax is a treat. Recall please Paulo that you stated your concern for suppressing RFI and wanted the most certainty you can have that you will be successful. This concern is why we have repeatedly urged you to use the ferrite beads instead of the coax.

5.3 Commercial baluns: These are pre-built by various companies and vary in performance. I rather like those from DX Engineering. The W2DU type balun is offered by the Wireman (uses Type 73 ferrite beads which is fine). There are some companies that offer HF baluns made using Type 43 material. As I have explained before, Type 43 is inferior to Type 73 or 77. In any case, I would avoid Type 31 because of its low Currie temperature.

5.4 Ferrite beads: See the home page for details. In short, slip about 6 Type 77 (Amidon FB-77-1024) beads over the coax, cover with heat shrink, and the problem should be solved. I suggest the use of fully shielded coax in general; however, if you want to add a lot of beads (logic being "if a few are good, then a lot must be better"), then you can actually cause power loss by shield leakage if you are using partially shielded coax.

I understand you have purchased a balun from Volkmar's Wimo company in Germany and it will likely be fine. I have not tested the one he sales, so no endorsement or criticism from me. However, Volkmar is very serious about selling good products and I again suggest that it will work fine.

Now is the time, I suggest, to stop the gedankenexperiement and just get the antenna erected, and then let us know how it works! If you experience specific problems, then please provide the group the specific details and I expect you will receive some useful suggestions.

GL es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "ct2itz" <paulo.paixao@n...> wrote:
>
> Mr. Barry, let me tell you some words that might be useful;
> 1) i were not born with all our capacities , speacillay to bild this
> Antenna;
> 2) Customer satisfaction programe??: Call TGM in Canada..and speak to

> the owner and see how friendly he is..; Call In Germany the
> manufacturer of Spiderbeam. he answer back in moments....call
> Optibeam and see MR. Thomas giving 100 Customer Service... Why not
in
> Hexbeam??
>
> 3)When i bought the antenna MR. Mike told me that the best shock
was
> several turns of coax in a bottle of softdrink..so we do use the
same
> info...and when i buy a 2 element beam for mores than 1200 USD i
> expect some help from the person who sold me...or not???
>
> 4)I really do not understand why you keep picking om me with hard
> words,,the only thing i did was asking a question that is not
> accuratted.
> Sorry to disturb you..remenber we are always learning in life, and
> with this kind of answers ...really do not feel welcome..or
> understood.
>
> I am a teacher and my previlege is to teach the students who are
> intrested in learninhg...
>
> Well MR. BARRY iam but i do not ever LOOSE PATIENT WITH THE ONES
WHO
> SEEK FOR MY HELP.
> Best 73´
> Paulo
> CT2ITZ

2240. Re: English Language Problems!! (May be???)

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-18 05:58:08 UTC
From: w4wb
Topic: 2238 Message: 2240

Hello Paulo,

I am most pleased that you believe that the English language isn't the problem; however, I am not so confident language isn't a part of the problem. From what I understand from your current message, you are having trouble assembling the Hex-Beam. Is it possible for you to explain exactly what problems you are having. You may write in Portuguese if that will be easier to make your questions clearer. I am not fluent in Portuguese, but I have a ham friend that is very fluent in Portuguese. In this way, perhaps you can receive the help you need.

Assembly of the Hex-Beam is straightforward and the instructions are clear (to me at least). You do need at least one person to help you and it helps to mount the base plate upon a pipe that will hold the base plate about 1/2 meter above the ground.

Regarding your complaints about Traffie, I have never heard of anyone else saying that Mike wasn't willing to talk to them to resolve their questions for as long as needed. Have you sought help to do the general assembly of the antenna from other hams in your area since there are over 4,000 hams in Portugal.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "ct2itz" <paulo.paixao@n...> wrote:
>
> Good evenenig to all fell Radio Hams on this excelent Forum.
> I do not want to go on with this speech, because i see you do not
> understand the issue.: There are different information regardinfg
the
> same issue, like the one with Shock..!! What could be a solution,
the
> Constructor could give us a help..
> Well every teime i have a problem assembling the antenna i have to
> make a phone call (intercontinental) that costs me between 30-50
> USD depends on the time spent on the home. I could send an e
> mail..but Traffie Company does not have one..so..please tell me
what
> to do..I reaaly have to thank all the Radio hams that have been so
> nice to me and had the patient to answer my questions, really THANK
> YOU, but unfortunely can not say the same about the Constructer.
> The antenna is already expensive...more international phone
> calls.....is this an never ending story..fortunely this Forum
exist.

> By the way my HEXbeam is registred with Serial number #349
> I am sorry having to bring this subject here..but felt really
unfair
> having to spent $$$$ in calls to have assistance, something i am
> entitle for free....no follow up.....so i think my problem is not
the
> english language...
> Take Care and God Bless to you all
> CT2ITZ
> Paulo

2241. Re: [hex-beam] To Barry and friends : 6 Amidon FB-77-1024 beads V Dx Eng Balun; Which the best?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-18 13:35:35 UTC
From: Ed Cuypers
Topic: 2229 Message: 2241

Hi Paulo,
Don't know for sure if this is what you are looking for;
2 X-FP-77-1024 Euro 4,98

Ferrit-Materialien zur Funkentstörung
Im Folgenden ist eine Liste der größeren Ferritperlen sowie Ferritringkerne aufgeführt, die für Entstörprobleme häufig benutzt werden. Die größeren Ferritperlen und Ferritringkerne können zum Abblocken von HF auf der Abschirmung von Koax- und Mikrofonkabeln sowie unabgeschirmten Kabeln wie Lautsprecherleitungen und Netzkabeln verwendet werden.
In vielen Fällen wird eine einzige Windung durch den Kern eine ausreichende Dämpfung der unerwünschten HF bewirken. In anderen Fällen werden vielleicht mehrere Windungen notwendig sein, z.B. bei Netzkabeln.
Außendurchmesser: 25,40 mm (Outside diameter)
Loch: 12,70 mm (Inside diameter)
Länge: 21,00 mm (Length)
Typische Impedanz bei
25 MHz: 166 Ohm
100 MHz: 135 Ohm

Go to www.amidon.de. It is all in german language and more expensive than in the USA.

Webshop; http://www.amidon.de/websho/stratoindex.html

Look under Amidon-Entstörmaterial
Regards.
Ed, ON6EC
----- Original Message -----
From: ct2itz
To: hex-beam@yahoogroups.com
Sent: Tuesday, November 16, 2004 1:10 AM
Subject: [hex-beam] To Barry and friends : 6 Amidon FB-77-1024 beads V Dx Eng Balun; Which the best?

A commonly asked question is what material should be used for an RF choke. For the HF bands, the best material to use is Type 77 (or 73) ferrite beads. About 6 Amidon FB-77-1024 beads side over RG-213 and can be held in place with heat shrink. (Do not attempt to glue the beads together.) This balun should be located just below the base of the Hex-Beam, never within the elements or above it. Type 43 material is not appropriate for HF, but is the material of choice for VHF and UHF. A coax balun is an alternative, but suffers less attenutation and poorer bandwidth.

This is what we have in our home page can anybody help in this real confision??????
Thanks vert much
Paulo

PS I would like very much MR. Mike to gove his opinion, is it possible for you to writr some words to your customers regading this subject???
I will wait...never had a help from you even when requested..i am sorry but i had to say this. We pay very expensive for this small antenna...nevertheless The construction company is not active and help , why???
I want to thank to W6HB, Dough; Barry, other colleges that had really very helpfull, much more than the Constructer..What is wrong with this servive after sale, why you do not hel the customes, every tine i needd to make a call that is 30 USD,why, why, why ?????
Paulo
CT2ITZ

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a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.795 / Virus Database: 539 - Release Date: 12/11/2004

[Non-text portions of this message have been removed]

2242. TKS TO ALL FOR YOUR SUPPORT..

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-18 20:27:22 UTC
From: ct2itz
Topic: 2242 Message: 2242

Hi To all , just want to thank you for your help...
I think i will buy the DX Enginering balun..the Wimo one is a Comom
Mode filter..
Tks Barry and ED...and to all of you..
Best 73´s
CT2ITZ

2243. Rotation!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-18 15:17:35 UTC
From: waynejay95458
Topic: 2243 Message: 2243

I must be missing something, is there really a front and back on this beam? It sure isn't obvious. It looks like a quad turned heavenward or an old style turnstile clothes line. If it really works, it's the solution for a space problem I've been searching for over 2 months. Someone clue me in, please!
de WA6FXL/Wayne

2244. No email for H-B?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-18 12:50:05 UTC
From: waynejay95458
Topic: 2244 Message: 2244

This my first post. I'm considering the H-B multi due to space limitations. In this day and age I can't understand why a company wouldn't have email capabilities. This would make them less accessable for customer service
73's Wayne WA6FXL

2245. Re: Rotation!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 02:25:50 UTC
From: w4wb
Topic: 2243 Message: 2245

Hi Wayne,

Welcome. Yes, it does have a from and back. The reflector is a bit longer than the driven element, but both are in the same structure. Look on the home page of this site and see the upper left photo. I highlighted the element in color to make it clearer which is which, and the beam heading. Does it work? You bet. I have almost 300 entities confirmed using it and Tony AD1Y (right-side photo) has all but a couple of entities now. Ed 4L4FN (gentleman that is best known for his operation in P5-land and now is in D2-land) found the 10-15 m Hex-Beam to work great when he was in North Korea and now he has the 5-band version in Angola. I am having another one made by Traffie that covers 30 and 40 m. :-))) Does it hold up in bad WX? Yep. Mine has seen modest 60-70 mph winds. W2GFF near Mobile, AL had no damage to his when hit by > 100 mph during the huricane this summer. Stands both heat and cold well.

Hope this helps.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "waynejay95458" <wa6fxl@e...> wrote:
>
>
> I must be missing something, is there really a front and back on
this
> beam? It sure isn't obvious. It looks like a quad turned heavenward
or
> an old style turnstile clothes line. If it really works, it's the
> solution for a space problem I've been searching for over 2 months.
> Someone clue me in, please!
> de WA6FXL/Wayne

2246. Re: No email for H-B?

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 02:28:20 UTC
From: w4wb
Topic: 2244 Message: 2246

--- In hex-beam@yahoogroups.com, "waynejay95458" <wa6fxl@e...> wrote:
>
>
> This my first post. I'm considering the H-B multi due to space
> limitations. In this day and age I can't understand why a company
> wouldn't have email capabilities. This would make them less
accessable
> for customer service
> 73's Wayne WA6FXL

There are reasons why he hasn't had email. The mater is being worked on, but not sure if it will be resolved. He has an 888 number, so just call him. He is generally able to talk when one calls, but if not then, leave a time span he can return your call.
73,
Barry W4WB

2247. Hello

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 16:33:32 UTC
From: Wayne Busby
Topic: 2247 Message: 2247

Hi Barry,
Thank you for your help and comments. I took a look at the picture in your Word document. Thanks. Are you the group moderator or just an enthusiastic Hex Beam owner?
I notice in the discussion of RF chokes mention of using a type 77 ferrite beads. Do these come in different diameters? RG-213 is a smaller diameter than the RG-8X that I'm currently using. I have been away from things long enough to ask a really bone head question: shrink tubing- can it be shrunk using a hair dryer. Are you using the HDX mast from Traffie? I'm curious how much it weighs? If you get too much weight I wonder about fitting the whole thing into the hole (never mind about play on words). In Traffie's documentation for the push-up mast, he shows a ground mounted rotor, how is the rotor kept from rotating? I ask all this with the knowledge that there is no truly dumb question more than the one not asked. I guess? What type of guy wire do you use? Is expensive Phillystran necessary? How about Dacron or polypropelene rope? I was going to send this as private mail but I don't mind coming off as a novice. I am in some areas, not in others, so I'm also sending to the list.
Best 73's
Wayne/WA6FXL

2248. Re: [hex-beam] Hello

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 16:48:34 UTC
From: Mark Robinson
Topic: 2247 Message: 2248

No question is stupid - they all sound good questions to me. As for heatshrink tubing - I ended up buying a heatshrink gun. I am not sure if a hairdryer will be hot enough. My immediate answer is no. At a push we used to use a soldering iron held near the heatshrink. It works if you are careful but still doesn't beat the result with a real heatshrink gun. If you had an electric paintstripper - that might work with care. Again I bought my heatshrink gun in 1990 and am glad that I have every time that I deal with heatshrink tubing.

Mark N1UK / G3ZZM

----- Original Message -----
From: "Wayne Busby" <wa6fxl@...>
To: <hex-beam@yahoogroups.com>; <w4wb@...>
Sent: Saturday, 20 November, 2004 11:33 AM
Subject: [hex-beam] Hello

>
> Hi Barry,
> Thank you for your help and comments. I took a look at the picture in
> your Word document. Thanks. Are you the group moderator or just an
> enthusiastic Hex Beam owner?
> I notice in the discussion of RF chokes mention of using a type 77
> ferrite beads. Do these come in different diameters? RG-213 is a smaller
> diameter than the RG-8X that I'm currently using. I have been away from
> things long enough to ask a really bone head question: shrink tubing-
> can it be shrunk using a hair dryer. Are you using the HDX mast from
> Traffie? I'm curious how much it weighs? If you get too much weight I
> wonder about fitting the whole thing into the hole (never mind about
> play on words). In Traffie's documentation for the push-up mast, he
> shows a ground mounted rotor, how is the rotor kept from rotating? I ask
> all this with the knowledge that there is no truly dumb question more
> than the one not asked. I guess? What type of guy wire do you use? Is
> expensive Phillystran necessary? How about Dacron or polypropelene rope?
> I was going to send this as private mail but I don't mind coming off as
> a novice. I am in some areas, not in others, so I'm also sending to the
> list.
> Best 73's
> Wayne/WA6FXL
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> Yahoo! Groups Links

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2249. Amidon Ferrite Beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 16:49:44 UTC
From: waynejay95458
Topic: 2249 Message: 2249

http://www.amidon-inductive.com/associates_prod_largerbeads.htm
Part: FB-77-1024, OD=1.0 in, ID= 0.5 in etc.
My question is: this is a suitable diameter for RG-213, which part number for RG-8X?
Tnx,
WA6FXL

2250. Ferrite beads continued

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 17:02:45 UTC
From: Wayne Busby
Topic: 2250 Message: 2250

http://www.palomar-engineers.com/Ferrite_Beads/ferrite_beads.html
I already have the plug on my coax. Using a split bead would work except
I see that Type 43/44 is not recommended. My search continues.

2251. Ferrite bauluns/RF chokes part III

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 17:13:31 UTC
From: waynejay95458
Topic: 2251 Message: 2251

This seems like a good alternative, EXCEPT, if you already have the cable assembled. Believe it or not, not all hams are adept at making up cable connectors. At least my memory recalls poor attempts.
This is a kit suitable for RG-8 diameter cable for $15, I wish the beads were split. Any thoughts? Anyone?
http://www.antennex.com/palomar/balun_kits.htm

2252. Re: [hex-beam] Hello

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 17:31:47 UTC
From: Wayne Busby
Topic: 2247 Message: 2252

This is from the antennex balun kit page, they think a lighter is sufficent:
"

Baluns are used to connect balanced antennas to unbalanced transmission lines (coaxial cable). They prevent antenna currents from flowing down the outside of the cable. They should be located right at the antenna. They can also be used as "line isolators" anywhere along the cable to prevent flow of induced RF.

These balun kits are 1:1 current baluns. They consist of five large ferrite beads (total length 5-1/2 inches) that slip over the coax. Also included are three lengths of shrink tubing to enclose the balun and hold it in place on the cable. The baluns are for use from 3.5-60 MHz and allow use of RF power to the full capability of the cable. No tools are required for installation, just a source of heat to shrink the tubing. Heat gun, lighter, matches."

Mark Robinson wrote:

> No question is stupid - they all sound good questions to me. As for
> heatshrink tubing - I ended up buying a heatshrink gun. I am not sure if a
> hairdryer will be hot enough. My immediate answer is no. At a push we used
> to use a soldering iron held near the heatshrink. It works if you are
> careful but still doesn't beat the result with a real heatshrink gun.
> If you
> had an electric paintstripper - that might work with care. Again I
> bought my
> heatshrink gun in 1990 and am glad that I have every time that I deal with
> heatshrink tubing.
>
>
> Mark N1UK / G3ZZM
>
>
> ----- Original Message -----
> From: "Wayne Busby" <wa6fxl@...>
> To: <hex-beam@yahoogroups.com>; <w4wb@...>
> Sent: Saturday, 20 November, 2004 11:33 AM
> Subject: [hex-beam] Hello
>
>
> >
> > Hi Barry,
> > Thank you for your help and comments. I took a look at the picture in
> > your Word document. Thanks. Are you the group moderator or just an
> > enthusiastic Hex Beam owner?

> > I notice in the discussion of RF chokes mention of using a type 77
> > ferrite beads. Do these come in different diameters? RG-213 is a smaller
> > diameter than the RG-8X that I'm currently using. I have been away from
> > things long enough to ask a really bone head question: shrink tubing-
> > can it be shrunk using a hair dryer. Are you using the HDX mast from
> > Traffie? I'm curious how much it weighs? If you get too much weight I
> > wonder about fitting the whole thing into the hole (never mind about
> > play on words). In Traffie's documentation for the push-up mast, he
> > shows a ground mounted rotor, how is the rotor kept from rotating? I ask
> > all this with the knowledge that there is no truly dumb question more
> > than the one not asked. I guess? What type of guy wire do you use? Is
> > expensive Phillystran necessary? How about Dacron or polypropelene rope?
> > I was going to send this as private mail but I don't mind coming off as
> > a novice. I am in some areas, not in others, so I'm also sending to the
> > list.
> > Best 73's
> > Wayne/WA6FXL
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>
>

2253. Re: Hello

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 18:29:52 UTC
From: w4wb
Topic: 2247 Message: 2253

Hi Wayne,

Comments are embedded below.

--- In hex-beam@yahoogroups.com, Wayne Busby <wa6fxl@e...> wrote:
> Hi Barry,
> Thank you for your help and comments. I took a look at the picture
in
> your Word document. Thanks.

Are you the group moderator or just an enthusiastic Hex Beam owner?

Yes and yes.

> I notice in the discussion of RF chokes mention of using a type 77
ferrite beads. Do these come in different diameters?

Yes.

RG-213 is a smaller diameter than the RG-8X that I'm currently using.

Huh? 213 is 0.405" OD and 8X is 0.242" OD. For the 213 use the FB-
77-1024 (0.500" ID) or the FB-77-5621 (0.250" ID). I haven't given
the 8X issue any real thought, but first guess is to use perhaps 10
or so beads.

I have been away from things long enough to ask a really bone head
question: shrink tubing- can it be shrunk using a hair dryer.

My experience was that a hair dryer isn't adequate. Get a heat gun
or as an alternative one of those paint remover heat guns from places
like Sears.

Are you using the HDX mast from Traffie?

No.

I'm curious how much it weighs?

I don't have that information. Two people can erect it.

If you get too much weight I wonder about fitting the whole thing
into the hole (never mind about play on words). In Traffie's
documentation for the push-up mast, he shows a ground mounted rotor,
how is the rotor kept from rotating?

There are different way to implement the rotor. One key point is
that you have to have a transition piece made unless your rotor
accepts the diameter of the mast. As I recall, we sent Ed 4L4FN one

with the mast while he was in P5-land. Mounting the rotor depends upon the rotor. Some have a base plate to bolt down while others need to be attached to a pipe with clamps.

I ask all this with the knowledge that there is no truly dumb question more than the one not asked. I guess? What type of guy wire do you use? Is expensive Phillystran necessary? How about Dacron or polypropelene rope?

First, never use guy wire. I use Antenna Rope made by Synthetic Textiles of Anaheim, CA (714.630.2134), which is a double-braided Dacron/polyester material. It is black. My experience with it has been excellent ... no faults, frays, or stretching. I highly recommend using the single Butterfly knot (http://osaka70.site.ne.jp/e/rope/middle.html) to fabricate a "rope pulley" to properly and easily tension the guys.

I was going to send this as private mail but I don't mind coming off as a novice. I am in some areas, not in others, so I'm also sending to the list.
> Best 73's
> Wayne/WA6FXL

Hope this helps Wayne.

73,
Barry W4WB

2254. Re: Hello

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 18:44:57 UTC
From: w4wb
Topic: 2247 Message: 2254

Wayne,

This is the same as the Palomar. They had been using Type 43 material. Maybe check and ask them if you like. Regarding the snap-on or split beads, one must be careful when using the snap-on type. Some can damage the coax over time due to their design. I don't know of split beads made of 77. As I mentioned before, 43 works, but far poorer than 77. You are making a significant investment in time and $$$, so why not select the better?

I suggest that you would be better off cutting the connector off of your coax, put on the beads (remember to keep the beads just below the antenna), and install a new coax connector. Maybe you have a friend to help if you feel uncomfortable installing the PL-259. I note that a common problem I see is with installations (home and mobile in particular) is that the coax connector was improperly installed. May I suggest Greg W8WWW web page on coax connector installation (nicely done IMO) ... http://www.seed-solutions.com/gregordy/Amateur%20Radio/Experimentation/SolderCoax.htm

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, Wayne Busby <wa6fxl@e...> wrote:
> This is from the antennex balun kit page, they think a lighter is sufficent:
> "
>
> Baluns are used to connect balanced antennas to unbalanced transmission
> lines (coaxial cable). They prevent antenna currents from flowing down
> the outside of the cable. They should be located right at the antenna.
> They can also be used as "line isolators" anywhere along the cable to
> prevent flow of induced RF.
>
> These balun kits are 1:1 current baluns. They consist of five large
> ferrite beads (total length 5-1/2 inches) that slip over the coax. Also
> included are three lengths of shrink tubing to enclose the balun and
> hold it in place on the cable. The baluns are for use from 3.5-60 MHz
> and allow use of RF power to the full capability of the cable. No

tools
> are required for installation, just a source of heat to shrink the
> tubing. Heat gun, lighter, matches."
>
>

2255. Re: [hex-beam] Ferrite bauluns/RF chokes part III

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 19:08:12 UTC
From: john labutski
Topic: 2251 Message: 2255

None of us were adept at doing coax connectors. It only takes a few tries to get hang of it. You just need a box cutter , a pair of diagonal cutters, and a soldering iron with some solder. Just make sure you don't get the frayed braid pieces to short out the center conductor. Radio shack has a crimper if you prefer crimp style.

john
----- Original Message -----
From: waynejay95458
To: hex-beam@yahoogroups.com
Sent: Saturday, November 20, 2004 12:13 PM
Subject: [hex-beam] Ferrite bauluns/RF chokes part III

This seems like a good alternative, EXCEPT, if you already have the
cable assembled. Believe it or not, not all hams are adept at making
up cable connectors. At least my memory recalls poor attempts.
This is a kit suitable for RG-8 diameter cable for $15, I wish the
beads were split. Any thoughts? Anyone?
http://www.antennex.com/palomar/balun_kits.htm

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[Non-text portions of this message have been removed]

2256. Re: Ferrite bauluns/RF chokes part III

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 19:17:02 UTC
From: w4wb
Topic: 2251 Message: 2256

--- In hex-beam@yahoogroups.com, "john labutski" <kd6wd@c...> wrote:
> None of us were adept at doing coax connectors. It only takes a
few tries to get hang of it. You just need a box cutter , a pair of
diagonal cutters, and a soldering iron with some solder. Just make
sure you don't get the frayed braid pieces to short out the center
conductor. Radio shack has a crimper if you prefer crimp style.
>
> john

Roger that John, but I caution against the use of the crimped style
based upon the number of failure I have seen over the years.

73,
Barry W4WB

2257. Re: [hex-beam] Re: Ferrite bauluns/RF chokes part III

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 19:51:10 UTC
From: john labutski
Topic: 2251 Message: 2257

Good point Barry,
I agree on the reduced reliability of the crimp style especially if there is a strain on the cable, I usually use crimp types only indoors. Or on quicky field day type setups.

Good input

John kd6wd/4

----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Saturday, November 20, 2004 2:17 PM
Subject: [hex-beam] Re: Ferrite bauluns/RF chokes part III

--- In hex-beam@yahoogroups.com, "john labutski" <kd6wd@c...> wrote:
> None of us were adept at doing coax connectors. It only takes a
few tries to get hang of it. You just need a box cutter , a pair of
diagonal cutters, and a soldering iron with some solder. Just make
sure you don't get the frayed braid pieces to short out the center
conductor. Radio shack has a crimper if you prefer crimp style.
>
> john

Roger that John, but I caution against the use of the crimped style
based upon the number of failure I have seen over the years.

73,
Barry W4WB

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[Non-text portions of this message have been removed]

2258. OD

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 23:32:46 UTC
From: Wayne Busby
Topic: 2258 Message: 2258

"213 is 0.405" OD and 8X is 0.242" OD."
Isn't it the other way around? The larger of the two being the RG-8X?

2259. Re: OD

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-21 01:46:58 UTC
From: w4wb
Topic: 2258 Message: 2259

--- In hex-beam@yahoogroups.com, Wayne Busby <wa6fxl@e...> wrote:
> "213 is 0.405" OD and 8X is 0.242" OD."
> Isn't it the other way around? The larger of the two being the RG-8X?

Hi Wayne,

No sir. RG-213 and RG-8 (Belden #8214) both have an OD of 0.405". RG-8X (also called Mini-8) has an OD of 0.242". These are also the ODs that work well with the PL-259.

73,
Barry W4WB

2260. RE: [hex-beam] Amidon Ferrite Beads

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-20 23:47:37 UTC
From: Larry
Topic: 2249 Message: 2260

I got this from an article a little while ago. I think I got it off a QRP forum but they use 5 beads 1.125 in x .25 d.
Mouser # 623-2643540002

The problem is that some of the RG-8X is a little bigger than others and these beads are real tight, and on some 8X they won't slip on at all.

Mouser has some bigger beads but with a lesser value so I guess you could just add more beads.

I hope this helps.

Larry
WB5CXC, VR2LB

-----Original Message-----
From: waynejay95458 [mailto:wa6fxl@...]
Sent: Saturday, November 20, 2004 10:50 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Amidon Ferrite Beads

http://www.amidon-inductive.com/associates_prod_largerbeads.htm
Part: FB-77-1024, OD=1.0 in, ID= 0.5 in etc.
My question is: this is a suitable diameter for RG-213, which part number for RG-8X?
Tnx,
WA6FXL

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2261. Sealing connections

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-21 02:12:46 UTC
From: w4wb
Topic: 2261 Message: 2261

One thing that hasn't been discussed recently is protection of the connectors.

Two simple and good things to do are as follows:

1. Use a compound like "PENETROX A" to accomplish a solid electrical connection between the metal parts of the connectors (as well as other such interfaces). Also helps to mitigate seizing. Good source is DX Engineering.

2. Seal joints and connectors with something like Coax-Seal to protect against water or other contaminants leaking into the connector. Available at most ham radio supply companies. WARNING: You can use RTV, but be certain it isn't the type that gives off acetic acid while curing (if it smells like vinegar, you got the wrong stuff). This can cause corrosion. DX Engineering sells some stuff that is okay and I have seen others. I find that Coax-Seal does the job for me.

These little things will keep your antenna maintenance down significantly and your performance up.

73,
Barry W4WB

2262. HEX - antena

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-23 19:02:25 UTC
From: SQ 7 JT
Topic: 2262 Message: 2262

Hello
Where can I find all measurements for hex beam antena for 20m.
I read something on the net but no measurements .

Thanks
'73 from Poland
SQ7JT
op. George

[Non-text portions of this message have been removed]

2263. Re: HEX - antena

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-25 07:32:06 UTC
From: dl7io
Topic: 2262 Message: 2263

Hello George,
are you looking for measurements anybody has made on the antenna or asking for the dimensions of a 20m version?
I guess you are talking about dimensions. Check the article from Mike Traffie in the file section or check out the webpage of EI7BA. He describes a 17m homemade project and gives you some formula to calculate another band.
I have calculated a number of beams with EZNEC also single band versions from 10-80m The only single band I have built is 40m. Here the dimensions worked fine. My results can be found also in the file section under Dl7IO or on my webpage in an excel file called:
reflectedw-single-band-koordinaten.xls
best regards Holger
www.dl7io.de

PS: We will take part in the CQWWDX-CW next weekend as DL7IO in the Multi2 category. Among other antennas we use 2 hex's I built the last 2 weeks. One is a "40-4" for 40/30/20/17m and a "20-5" (20-10m). So please all of you give us a call. tks

--- In hex-beam@yahoogroups.com, "SQ 7 JT" <etz293@p...> wrote:
>
> Hello
> Where can I find all measurements for hex beam antena for 20m.
> I read something on the net but no measurements .
>
>
> Thanks
> '73 from Poland
> SQ7JT
> op. George
>
>
>
> [Non-text portions of this message have been removed]

2264. AMIDON FERIITE BEAD FB-77-1024

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-25 23:10:40 UTC
From: ct2itz
Topic: 2264 Message: 2264

Hi to all, i have just 10 pieces of this from Amidon.
How many who guys think are necessary to put in the base of the antenna.
Shall i put them after the conector (PL) right, just under ...how many cm below??'
thanks a lot for your information....
Best 73´s
CT2ITZ

2265. Re: AMIDON FERIITE BEAD FB-77-1024

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-26 01:31:59 UTC
From: w4wb
Topic: 2264 Message: 2265

--- In hex-beam@yahoogroups.com, "ct2itz" <paulo.paixao@n...> wrote:
>
> Hi to all, i have just 10 pieces of this from Amidon.
> How many who guys think are necessary to put in the base of the
> antenna.
> Shall i put them after the conector (PL) right, just under ...how
> many cm below??'
> thanks a lot for your information....
> Best 73´s
> CT2ITZ

Paulo,

Glad you received the beads. Take 6 of them and locate them on your coax just below the base of the Hex-Beam. Actual location isn't very important to within a foot or so; however, do not allow then above the base of the antenna. (Depending upon how you have things arranged, you may have a relief loop in your coax for your rotor.) Also, be sure to run your coax exactly as shown in the instructions ... down the COLD side of the center support between the reflector lelment and the driven element.

There are many ways to hold the beads in place. I cover then with heat shrink and hold in place on the coax with cable ties (being careful not to overtighten the cable ties (you can hurt the coax). Do not glue the beads together.

73,
Barry W4WB

2266. Source for FiberGlass Rods

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-28 14:57:05 UTC
From: n8yhy
Topic: 2266 Message: 2266

I found a source for the Fiberglass Spreaders and wanted to share this with the other members. The price of the fiberglass rods are very cheap i think..The rods are in 8ft length and come in black colors and have several diffrent sizes, they run around $6.50 each.. http://www.mgs4u.com/fiberg.htm Hope this helps...Chris N8YHY

2267. ANGRY AND DISAPOINTED CUSTOMER FROM M.TAFFIE HEXBEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-29 01:21:49 UTC
From: ct2itz
Topic: 2267 Message: 2267

Dear Barry,
Please can you tell me again the model of your balunn from DX Engenering and also the liquid you told me to buy....
Barry it is a stupid question but can i put the 6 beads and the same baluun as you have in your antenna??
Tks Barry for beeing such a nice Radio ham as Dough W6HB May i say some words please,in the position of some who arrived 1 year ago to Radio ham:
1) the problem in this forum , is that some of the Experts in Hexbeams do not even care to answer the "stupid questions" from the new radio hams, so you remeber when you were rookies too??
2)HAS A TEACHER i ask my students (ages 18-24) no one wants to be radio ham they prefer internet and other hobbies...
3)That is way in 2o years time there will be only a few of us...no pile ups only qrm.
Isnt it in the Ham spirit to help each other????????
Honestly i did not fell wellcome on Radio ham... fortunely some of you were friends and willing to help..but i see the oposite..really sad..that is way i do not mount yet my Hex from MR, Mike (more difficult to contact that Mr.Bush, never had a word since my antenna arrived..so diferent from the owners of Optibeam,..TGM..ECO..

Why Mr.Mike Taffie you do not help the foreigners customers..do i have to call you every time and spend 50 USD in a International call, why you do not put an e mail for technical questions in your WEB Page??for your customers????

what is wrong with you..i am the one who spent a fortune in your product and you do not care about me as a customer???

SORRY BUT I CAN NOT UNDERSTAND HEXBEAM COMPANY REGARDING HELP TO CUSTOMERS..IT CAN NOT BE LIKE THIS..I DID NOT BUY THE THE ANTENNA FROM BARRY...WHY DOES HE HAS TO DO THE PLACE OF CONSTRUCTER AND DEALER....BAD..BAD SERVICE HELPING FOREIGNERS CUSTOMERS MR. MIKE..THINK ABOUT IT..NOTE: F
BEST 73´S
FROM AN ANGRY AND VERY DISAPOINTED CUSTOMER (IF I COULD I WOULD NEVER BUY THIS ANTENNA FROM MR. PHANTOM)
THANKS GOD I HAVE MY ROTARY
DIPOLE....

2268. Re: ANGRY AND DISAPOINTED CUSTOMER FROM M.TAFFIE HEXBEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-29 05:18:59 UTC
From: w4wb
Topic: 2267 Message: 2268

Paulo,

Doug and I have sent you direct messages. Perhaps they will help.
Your questions about email have already been answered. Perhaps you
should write out what you want to ask and send to Traffie by FAX.
That costs less than a phone call. He will respond I feel certain.

Please look at the messages in the hex-beam archive and you will see
that I have answered the below questions already. Take the time to
locate and read them carefully, and perhaps print them out.

Good luck,
Barry W4WB

--- In hex-beam@yahoogroups.com, "ct2itz" <paulo.paixao@n...> wrote:
>
> Dear Barry,
> Please can you tell me again the model of your balunn from DX
> Engenering and also the liquid you told me to buy....
> Barry it is a stupid question but can i put the 6 beads and the
same
> baluun as you have in your antenna??
> Tks Barry for beeing such a nice Radio ham as Dough W6HB May i say
> some words please,in the position of some who arrived 1 year ago to
> Radio ham:
> 1) the problem in this forum , is that some of the Experts in
> Hexbeams do not even care to answer the "stupid questions" from the
> new radio hams, so you remeber when you were rookies too??
> 2)HAS A TEACHER i ask my students (ages 18-24) no one wants to be
> radio ham they prefer internet and other hobbies...
> 3)That is way in 2o years time there will be only a few of us...no
> pile ups only qrm.
> Isnt it in the Ham spirit to help each other????????
> Honestly i did not fell wellcome on Radio ham... fortunely some of
> you were friends and willing to help..but i see the oposite..really
> sad..that is way i do not mount yet my Hex from MR, Mike (more
> difficult to contact that Mr.Bush, never had a word since my
antenna
> arrived..so diferent from the owners of Optibeam,..TGM..ECO..
>
> Why Mr.Mike Taffie you do not help the foreigners customers..do i
> have to call you every time and spend 50 USD in a International
call,
> why you do not put an e mail for technical questions in your WEB
> Page??for your customers????

>
> what is wrong with you..i am the one who spent a fortune in your
> product and you do not care about me as a customer???
>
> SORRY BUT I CAN NOT UNDERSTAND HEXBEAM COMPANY REGARDING HELP TO
> CUSTOMERS..IT CAN NOT BE LIKE THIS..I DID NOT BUY THE THE ANTENNA
> FROM BARRY...WHY DOES HE HAS TO DO THE PLACE OF CONSTRUCTER AND
> DEALER....BAD..BAD SERVICE HELPING FOREIGNERS CUSTOMERS MR.
> MIKE..THINK ABOUT IT..NOTE: F
> BEST 73´S
> FROM AN ANGRY AND VERY DISAPOINTED CUSTOMER (IF I COULD I WOULD
> NEVER BUY THIS ANTENNA FROM MR. PHANTOM)
> THANKS GOD I HAVE MY ROTARY
> DIPOLE....

2269. TKS TO ALL FOR YOUR SUPPORT..DOUGH AND BARRY

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-29 22:26:12 UTC
From: ct2itz
Topic: 2269 Message: 2269

tks very much for existing such nice Radio Amateurs...I REALLY HAVE
TO SAY THANK YOU...WHAT WOULD I DO WITH OUT YOUR HELP MY FRIENDS.
GOOD BLESS YOU.....
BEST 73´S
PAULO

2270. New to group

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-30 03:54:34 UTC
From: wyretech
Topic: 244 Message: 2270

Have been wanting to purchase a Hexbeam for a long time, I will be buying one of the 5 bander's soon. call sign KC2JJD.

2271. wind load

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-11-30 14:06:27 UTC
From: dl7io
Topic: 2271 Message: 2271

Hello,
I have calculated the wind load for my beams.
No1. 20-10m seen from top 0,488m²/5,253 ft² and from the side
0,178m²/1,87ft²
No2. 40-17m seen from top 0,976m²/10,5 ft² and from the side
0,607m²/6,38 ft²

my spreaders are 14/24mm or 0,55/0,95in (top/bottom) in diameter for
the 20m+ version and 16/29mm or 0,63/1,14in for 40m+.

regards Holger

2272. 5 band model

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-01 12:22:00 UTC
From: Darren G0TSM
Topic: 2272 Message: 2272

Does anyone have an Eznec model for a 5band 10-20m hex?

Thanks, Darren

2273. Re: 5 band model

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-01 14:07:19 UTC
From: w4wb
Topic: 2272 Message: 2273

Darren,
Look in the files area (Folder called DL7IO I believe). Holger has made a number of models, including some multiband ones. I suggest you bear in mind that the model is "better" on receive than transmit due to the modeling method used by NEC.
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
> Does anyone have an Eznec model for a 5band 10-20m hex?
>
> Thanks, Darren

--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
> Does anyone have an Eznec model for a 5band 10-20m hex?
>
> Thanks, Darren

2274. I have made a photoalbum with all my Hexbeam-pictures

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-11 17:45:18 UTC
From: John
Topic: 2274 Message: 2274

Hello to all of you Hexbeam-builders-users etc.
I have upload all my pictures I made from the building of my Hexbeams in my photoalbum. Im busy to make my second Hexbeam from glasfibre fishingpoles and like to share these pics with you. In the feature I will edit all the names of the photos.
You can see them to click on my Yahoo-icon and you see my profile. At the left of the screen you see the link to my photoalbum with all the Hexbeam photomaps.

Hope you can use the photos to build your own Hexbeam, mine first one is working very fine and thats why I building a second one for /P use. Easy to build up and easy to brake down lol.

Best 73's de Jan PA2JJB

2275. Re: I have made a photoalbum with all my Hexbeam-pictures

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-11 21:00:51 UTC
From: w4wb
Topic: 2274 Message: 2275

Hi Jan,

Nice job and good photos. Can you pse comment on the SWR plots you showed? Looks like some bands (10-15 m) are rather high (over 2:1).

Again, very interesting project and I look forward to your next version.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "John" <johndeilander@y...> wrote:
>
>
> Hello to all of you Hexbeam-builders-users etc.
> I have upload all my pictures I made from the building of my Hexbeams
> in my photoalbum. Im busy to make my second Hexbeam from glasfibre
> fishingpoles and like to share these pics with you. In the feature I
> will edit all the names of the photos.
> You can see them to click on my Yahoo-icon and you see my profile. At
> the left of the screen you see the link to my photoalbum with all the
> Hexbeam photomaps.
>
> Hope you can use the photos to build your own Hexbeam, mine first one
> is working very fine and thats why I building a second one for /P use.
> Easy to build up and easy to brake down lol.
>
>
> Best 73's de Jan PA2JJB

2276. Forgot something important

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-12 18:28:22 UTC
From: John
Topic: 2276 Message: 2276

When you wanna take a look in my HEXbeam photoalbum; you need first login in HEXbeam-group, click on my name (johndeilander), then you get my profile and click on "view my photos"

Sorry to forgot to tell you in my last post

Succes with buiding this nice antenna

&3's de Jan PA2JJB Texel-Island EU038

2277. Re: Forgot something important

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-12 19:10:59 UTC
From: w4wb
Topic: 2276 Message: 2277

John,

You need to click on the Photos first, and then on the folder labeled
PA2JJB. Your method didn't work for me at least.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "John" <johndeilander@y...> wrote:
>
> When you wanna take a look in my HEXbeam photoalbum; you need first
> login in HEXbeam-group, click on my name (johndeilander), then you
> get my profile and click on "view my photos"
>
>
> Sorry to forgot to tell you in my last post
>
>
> Succes with buiding this nice antenna
>
> &3's de Jan PA2JJB Texel-Island EU038

2278. 6 M Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-14 07:39:13 UTC
From: John Titterton
Topic: 2278 Message: 2278

Greetings from Cape Town.

I am busy constructing a 5 band Hex (10 - 20 m) and hope to have it completed in the next few weeks. However, whilst getting all the bits and bobs ready for the 5 bander, I am looking at also building a single bander for 6 metres and am wondering if anybody has the measurements for doing this. I have looked in the groups files folder on Yahoo and can find no info for 6 metres - maybe I am a bit blind and missed the info. Can anybody help or point me in the right direction.

Regards

John
ZS1JNT

2279. Re: [hex-beam] 6 M Hex Beam these will get you in close

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-14 14:54:04 UTC
From: Kevin Adam
Topic: 2278 Message: 2279

Make your own figures with these numbers it will come very close to
computer model
N9IWW if you need them in meters do to DL7IO.DE web page he has them on
his web site.

The guys on the HEX reflector all agree the following...

Driven Element = 6180/Freq
Reflector = 6262/Freq
Tip Space (Driven Element) = 102/Freq

Tip Space (Reflector) = 65/Freq
Overall Tip Space = 145/Freq
Answers in inches...

On Tue, 14 Dec 2004 09:39:13 +0200, John Titterton <jt@...>
wrote:

>
>
> Greetings from Cape Town.
>
> I am busy constructing a 5 band Hex (10 - 20 m) and hope to have it
> completed in the next few weeks. However, whilst getting all the bits
> and bobs ready for the 5 bander, I am looking at also building a single
> bander for 6 metres and am wondering if anybody has the measurements for
> doing this. I have looked in the groups files folder on Yahoo and can
> find no info for 6 metres - maybe I am a bit blind and missed the info.
> Can anybody help or point me in the right direction.
>
> Regards
>
> John
> ZS1JNT
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2280. Re: 6 M Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-14 16:03:09 UTC
From: gerry_schjelderup
Topic: 2278 Message: 2280

John,
I have also built a 5 band Hex (10 to 20m) but will wait til Spring before I complete and install. But I discovered that the ends of my fishing poles not used on the 5 bander would be ideal to make a 6 meter Hex. Would like to make it a 'portable' and function like an umbrella. The problem I see there is the inflexibility of the elements. Any ideas-- or is this not practical?
Gerry KC0MSX

--- In hex-beam@yahoogroups.com, "John Titterton" <jt@i...> wrote:
>
> Greetings from Cape Town.
>
> I am busy constructing a 5 band Hex (10 - 20 m) and hope to have it
> completed in the next few weeks. However, whilst getting all the
bits
> and bobs ready for the 5 bander, I am looking at also building a
single
> bander for 6 metres and am wondering if anybody has the
measurements for
> doing this. I have looked in the groups files folder on Yahoo and
can
> find no info for 6 metres - maybe I am a bit blind and missed the
info.
> Can anybody help or point me in the right direction.
>
> Regards
>
> John
> ZS1JNT

2281. RE: [hex-beam] Re: 6 M Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-14 21:04:51 UTC
From: John Titterton
Topic: 2278 Message: 2281

Gerry,

I am not using fishing poles for my 5 band Hex. I am using 12mm solid fibreglass rods which I purchase in 6 metre lengths from a manufacturer close to my home. I have no idea what they are actually manufactured for but I know of 7 local Ham's that have used them for their Hex-beams. They are similar to the fibreglass rods that are used on sailing boats as battens in the main sail to keep the required shape of the sail and are sufficiently flexible.

We are in mid summer in the southern hemisphere and thus I am trying to get the antenna completed and up for next month. Everything is completed except for a fellow who is welding an aluminium hub for me which should be ready for collection in the next few days.

Just as a matter of interest, the total cost here of all the parts is equal to about US$110.00 excluding the co-ax, which is the most expensive single item.

Due to the amount of leftover rod after cutting, I was thinking of making a portable 6 M Hex. I have an IC-706MkIIG but have never been on the air on the 6 M bands which I am told are not very active here. Time for change!

If you need flexible rods, try a local sail maker and see what they can provide.

John
ZS1JNT (Cape Town) / ZD7JNT (St Helena Island)

-----Original Message-----
From: gerry_schjelderup [mailto:KC0MSX@...]
Sent: 14 December 2004 18:03
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: 6 M Hex Beam

John,
I have also built a 5 band Hex (10 to 20m) but will wait til Spring before I complete and install. But I discovered that the ends of my fishing poles not used on the 5 bander would be ideal to make a 6 meter Hex. Would like to make it a 'portable' and function like an umbrella. The problem I see there is the inflexibility of the elements. Any ideas-- or is this not practical?
Gerry KC0MSX

2282. Re: 6 M Hex Beam these will get you in close

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-15 02:10:42 UTC
From: w4wb
Topic: 2278 Message: 2282

Hi Keven,

Not so much that the guys on our list agree with the values you cite
below, it is that these values are taken directly from Mike Traffie's
1995 paper on the Hex-Beam. This paper is in the Files Section.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Kevin Adam" <n9iww@v...> wrote:
> Make your own figures with these numbers it will come very close
to
> computer model
> N9IWW if you need them in meters do to DL7IO.DE web page he has
them on
> his web site.
>
>
> The guys on the HEX reflector all agree the following...
>
> Driven Element = 6180/Freq
> Reflector = 6262/Freq
> Tip Space (Driven Element) = 102/Freq
>
> Tip Space (Reflector) = 65/Freq
> Overall Tip Space = 145/Freq
> Answers in inches...
>
>
> On Tue, 14 Dec 2004 09:39:13 +0200, John Titterton <jt@i...>
> wrote:
>
> >
> >
> > Greetings from Cape Town.
> >
> > I am busy constructing a 5 band Hex (10 - 20 m) and hope to have
it
> > completed in the next few weeks. However, whilst getting all the
bits
> > and bobs ready for the 5 bander, I am looking at also building a
single
> > bander for 6 metres and am wondering if anybody has the
measurements for
> > doing this. I have looked in the groups files folder on Yahoo and
can

> > find no info for 6 metres - maybe I am a bit blind and missed the
info.
> > Can anybody help or point me in the right direction.
> >
> > Regards
> >
> > John
> > ZS1JNT
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2283. Re: 6 M Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-15 07:43:24 UTC
From: dl7io
Topic: 2278 Message: 2283

Hello John,
what frequency range are you going to work on 6m. What kind of wire are you willing to use (material, diameter and type of wire insulation). As monoband versions are easy to calculate I could design an antenna on EZNEC4+. As we in Germany have only limited (by number) licences for 6m and I'm not one of the happy ones who won in the licence lottery I'm not active/focussing on 6m.
Holger

--- In hex-beam@yahoogroups.com, "John Titterton" <jt@i...> wrote:
>
> Greetings from Cape Town.
>
> I am busy constructing a 5 band Hex (10 - 20 m) and hope to have it
> completed in the next few weeks. However, whilst getting all the
bits
> and bobs ready for the 5 bander, I am looking at also building a
single
> bander for 6 metres and am wondering if anybody has the
measurements for
> doing this. I have looked in the groups files folder on Yahoo and
can
> find no info for 6 metres - maybe I am a bit blind and missed the
info.
> Can anybody help or point me in the right direction.
>
> Regards
>
> John
> ZS1JNT

2284. Re: [hex-beam] 6 M Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-15 13:39:54 UTC
From: Bob
Topic: 2278 Message: 2284

Hi John,

I have a home made 5-bander and during the summer I had a lot of 6m QSO's. Computer model shows that 18MHz elements are working prety well on 50MHz and gain is around 5,5dBi. In my case SWR is lower than 1,8.

73 Boyan LZ2BE

John Titterton <jt@...> wrote:

Greetings from Cape Town.

I am busy constructing a 5 band Hex (10 - 20 m) and hope to have it
completed in the next few weeks. However, whilst getting all the bits
and bobs ready for the 5 bander, I am looking at also building a single
bander for 6 metres and am wondering if anybody has the measurements for
doing this. I have looked in the groups files folder on Yahoo and can
find no info for 6 metres - maybe I am a bit blind and missed the info.
Can anybody help or point me in the right direction.

Regards

John
ZS1JNT

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2285. Re: 6 M Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-15 19:11:42 UTC
From: Garry
Topic: 2278 Message: 2285

Gerry. I'm not sure that lack of flexibility has any bearing on what you use for spreaders. Suppose that you inserted a small wedge under each spreader rod where it is attached to the hub thereby causeing the spreader to extend from the hub at an upward angel of 85 degrees rather than to jut out at an angle of 90 degrees. This should give a similar effect as flexing or bending of the spreaders. Then again, if you are building a single band antenna, such as six meters, you will only have the one set of elements (ref/driven) so what need is there for flexibility other then for possibly assisting to keep the wires taut? There might be any number of options for accomplishing that.

Garry
Ve7ajj

2286. Hex # 3 underway

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-16 11:56:30 UTC
From: David Douglass
Topic: 2286 Message: 2286

Have finally started work on my third 5-band Hex-Beam.

I built the centre post last night using 32mm PVC pipe, and installed the feed-wire internally. Many thanks to Holger for his explanation on how to do this.

I've uploaded a few pictures to the files section under 'VK2NU'.

There is nothing really new here, and I suppose most of the techniques have tried and tested, although I did make the centre post a little longer than needed, so that I could house the choke balun internally just above the 20m element.

I've also taken a picture of the element attachment nuts, that I got from Holger. These are excellent for the homebrewer, and will neaten things up no end. Also, in the same picture is a shot of the liquid electric tape I'm using to seal up all of the element and coax attachment points. I've only just come across this product and it seems excellent (and made in the USA I believe).

I'm using the same hub as my last Hex-Beam, which consists of the end from a drum of coax (idea courtesy EI7BA). Elements will again be good old Tasmanian Oak dowling, but this time sheathed in thin walled pvc pipe for extra strength.

Work is now on hold pending arrival of # 14 copper wire from the US. Like decent beer, good antenna wire is impossible to find in Australia.

Regards All

David, VK2NU

2287. RE: [hex-beam] 6 M Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-17 20:46:42 UTC
From: John Titterton
Topic: 2278 Message: 2287

Boyan,

Thanks for the note. My 5-bander will be a permanent installation where the 6m one I want to build as a portable unit that can fold up and taken up country when I am travelling.

Regards

John
ZS1JNT (South Africa) & ZD7JNT (St Helena Island)

-----Original Message-----
From: Bob [mailto:lz2be@...]
Sent: 15 December 2004 15:40
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] 6 M Hex Beam

Hi John,

I have a home made 5-bander and during the summer I had a lot of 6m QSO's. Computer model shows that 18MHz elements are working prety well on 50MHz and gain is around 5,5dBi. In my case SWR is lower than 1,8.

73 Boyan LZ2BE

2288. RE: [hex-beam] Re: 6 M Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-17 20:46:42 UTC
From: John Titterton
Topic: 2278 Message: 2288

Holger,

Thank you for your reply and kind offer.

I would be working mainly on 50.200 (the South African calling frequency) and thereafter moving up a few kHz. I will be using 1.5mm dia. stainless steel multi-strand wire which is NOT coated. This appears to be what most Hams are using here next to the sea as copper corrodes rather quickly.

Regards

John
ZS1JNT (South Africa) & ZD7JNT (St Helena Island)

-----Original Message-----
From: dl7io [mailto:dl7io@...]
Sent: 15 December 2004 09:43
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: 6 M Hex Beam

Hello John,
what frequency range are you going to work on 6m. What kind of wire are you willing to use (material, diameter and type of wire insulation). As monoband versions are easy to calculate I could design an antenna on EZNEC4+. As we in Germany have only limited (by number) licences for 6m and I'm not one of the happy ones who won in the licence lottery I'm not active/focussing on 6m.
Holger

2289. 10 - 40 hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-18 13:11:20 UTC
From: Dale
Topic: 2289 Message: 2289

Holger

i seen some of your information on the 12 - 40 hex and was wondering if it could also be used on 10 & 15 also if you have available any of the dimensions for the 12-40
73 Dale k8nke

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[Non-text portions of this message have been removed]

2290. Re: [hex-beam] 10 - 40 hex you need to read Dale

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-18 15:07:36 UTC
From: Kevin Adam
Topic: 2289 Message: 2290

Dale you will find in the files section of the yahoo group all the information that you need if not email DL7IO he has done an outstand job of putting the information together for all to see and share DL7IO has single band designs to look in his file area in the group please. you will need eznec to check or ask someone to run the file for you.

N9IWW Kevin Adam

On Sat, 18 Dec 2004 13:11:20 +0000, Dale <dmess@...> wrote:

>
> Holger
>
> i seen some of your information on the 12 - 40 hex and was wondering if
> it
> could also be used on 10 & 15 also if you have available any of the
> dimensions for the 12-40
> 73 Dale k8nke
>
> ----------
>
>
> ---
> Outgoing mail is certified Virus Free.
> Checked by AVG anti-virus system (http://www.grisoft.com).
> Version: 6.0.809 / Virus Database: 551 - Release Date: 12/9/04
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2291. Re: 10 - 40 hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-20 14:53:17 UTC
From: dl7io
Topic: 2289 Message: 2291

Hello Dale,
if you download the zip with the EZNEC file you will find a second
file which has TXT-format and can be seen with every editor program.
This file includes a summary of the dimensions, distances between
band elements and isolator data for this antenna.
If the files are not in this file section please check my webpage.
The "reflected W beam" page has a link "data & files for download".

regards Holger

PS: John, ZS1JNT, I have not been able to calculate the 50MHz model
yet. I had to work a lot during the last days.

--- In hex-beam@yahoogroups.com, Dale <dmess@t...> wrote:
> Holger
>
> i seen some of your information on the 12 - 40 hex and was
wondering if it
> could also be used on 10 & 15 also if you have available any of the
> dimensions for the 12-40
> 73 Dale k8nke
>
> ----------
>
>
> ---
> Outgoing mail is certified Virus Free.
> Checked by AVG anti-virus system (http://www.grisoft.com).
> Version: 6.0.809 / Virus Database: 551 - Release Date: 12/9/04
>
>
> [Non-text portions of this message have been removed]

2292. Re: [hex-beam] Re: 17-30-40 hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-21 03:02:13 UTC
From: kd1ia
Topic: 2292 Message: 2292

HI all, Im interested in building a triband 17m 30m 40m reflected W beam. Can anybody point me to a design I migh copy Or can I just omit the 20m from teh quad bander tha Holger has. Also can any body point me in the direction of a STATE SIDE dealer of the parts neccessay to HB one of these beams.

de John Ko1h

----- Original Message -----
From: dl7io
To: hex-beam@yahoogroups.com
Sent: Monday, December 20, 2004 2:53 PM
Subject: [hex-beam] Re: 10 - 40 hex

Hello Dale,
if you download the zip with the EZNEC file you will find a second file which has TXT-format and can be seen with every editor program.
This file includes a summary of the dimensions, distances between band elements and isolator data for this antenna.
If the files are not in this file section please check my webpage.
The "reflected W beam" page has a link "data & files for download".

regards Holger

PS: John, ZS1JNT, I have not been able to calculate the 50MHz model yet. I had to work a lot during the last days.

--- In hex-beam@yahoogroups.com, Dale <dmess@t...> wrote:
> Holger
>
> i seen some of your information on the 12 - 40 hex and was wondering if it
> could also be used on 10 & 15 also if you have available any of the
> dimensions for the 12-40
> 73 Dale k8nke
>
> ----------
>
>
> ---
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> [Non-text portions of this message have been removed]

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2293. Re: 17-30-40 hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-21 11:05:36 UTC
From: dl7io
Topic: 2292 Message: 2293

Hello John,
you will need to do some homework yourself if you need the design. I have downloaded a file in the file section under DL7IO called "dl7io-40-4-without20m.pdf" This shows the EZNEC results with 20m elements removed.
BR Holger

--- In hex-beam@yahoogroups.com, "kd1ia" <kd1ia@c...> wrote:
> HI all, Im interested in building a triband 17m 30m 40m reflected W beam. Can anybody point me to a design I migh copy Or can I just omit the 20m from teh quad bander tha Holger has. Also can any body point me in the direction of a STATE SIDE dealer of the parts neccessay to HB one of these beams.
>
> de John Ko1h
>
> ----- Original Message -----
> From: dl7io
> To: hex-beam@yahoogroups.com
> Sent: Monday, December 20, 2004 2:53 PM
> Subject: [hex-beam] Re: 10 - 40 hex
>
>
>
> Hello Dale,
> if you download the zip with the EZNEC file you will find a second
> file which has TXT-format and can be seen with every editor program.
> This file includes a summary of the dimensions, distances between
> band elements and isolator data for this antenna.
> If the files are not in this file section please check my webpage.
> The "reflected W beam" page has a link "data & files for download".
>
> regards Holger
>
> PS: John, ZS1JNT, I have not been able to calculate the 50MHz model
> yet. I had to work a lot during the last days.
>
> --- In hex-beam@yahoogroups.com, Dale <dmess@t...> wrote:
> > Holger
> >

> > i seen some of your information on the 12 - 40 hex and was
> wondering if it
> > could also be used on 10 & 15 also if you have available any of
the
> > dimensions for the 12-40
> > 73 Dale k8nke
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> > ----------
> >
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> > Version: 6.0.809 / Virus Database: 551 - Release Date: 12/9/04
> >
> >
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2294. pole length

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-23 12:52:52 UTC
From: Dale
Topic: 2294 Message: 2294

i was wondering what the distance should be from the center pole to the end
of the end of the spreader pole for 20 meters when the spreader is curved
into position?
73 k8nke

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.296 / Virus Database: 265.6.4 - Release Date: 12/22/04

2295. Re: 6 M Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-23 15:32:55 UTC
From: dl7io
Topic: 2278 Message: 2295

Hello John,
right before Christmas you can download a pdf file called "reflectedW-
6m .pdf" from the file section/DL7IO. Let me know your results please.
Best season greetings to all of you,
Holger

--- In hex-beam@yahoogroups.com, "John Titterton" <jt@i...> wrote:
> Holger,
>
> Thank you for your reply and kind offer.
>
> I would be working mainly on 50.200 (the South African calling
> frequency) and thereafter moving up a few kHz. I will be using 1.5mm
> dia. stainless steel multi-strand wire which is NOT coated. This
appears
> to be what most Hams are using here next to the sea as copper
corrodes
> rather quickly.
>
> Regards
>
> John
> ZS1JNT (South Africa) & ZD7JNT (St Helena Island)
>
>
> -----Original Message-----
> From: dl7io [mailto:dl7io@y...]
> Sent: 15 December 2004 09:43
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] Re: 6 M Hex Beam
>
>
>
>
> Hello John,
> what frequency range are you going to work on 6m. What kind of wire
> are you willing to use (material, diameter and type of wire
> insulation). As monoband versions are easy to calculate I could
> design an antenna on EZNEC4+. As we in Germany have only limited
(by
> number) licences for 6m and I'm not one of the happy ones who won
in
> the licence lottery I'm not active/focussing on 6m.
> Holger

2296. hex feed

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-23 15:30:26 UTC
From: Dale
Topic: 2296 Message: 2296

was wondering if any one had tried to use the copper plumbing strap with holes in it for the feed system inside of the mast and if so with what results
thanks
73 k8nke

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.296 / Virus Database: 265.6.4 - Release Date: 12/22/04

2297. Re: hex feed

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-01-07 23:29:29 UTC
From: ve3cwo
Topic: 2296 Message: 2297

--- In hex-beam@yahoogroups.com, Dale <dmess@t...> wrote:
> was wondering if any one had tried to use the copper plumbing strap
with
> holes in it for the feed system inside of the mast and if so with
what
> results
> thanks
> 73 k8nke
>
Yes, I have used the copper plumber strap in two 5-band
antennas. I soldered brass bolts at appropriate spacing along three
lengths of strap, two for feeding, other for the reflector. Drilled
matching holes just a tiny bit oversize for the bolts, and slipped
the strips inside one and one-half inch pvc pipe, wiggled the strips
until the bolts came through, then held them in place with a washer
and nut. Later, the wire elements were installed with another washer
and nut. No problems experienced, and I feel good that the straps are
out of the weather (rain, ice and snow at times). By the way, I
feed one of them at the 10 metre element, and the other one at the 17
metre element. Naturally, the tuning was a little different for each,
but the results of using them on the air seem to be the same. Nice
antenna in a compact space.

regards,
Doug VE3CWO

2298. 5 bands Hex-beam ????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-01-11 13:14:44 UTC
From: Giorgio
Topic: 2298 Message: 2298

Hi to all.

I am building my 5 bands hex-beam with the help of the DL7IO documents, found in files section.

I am doubt with elements dimension: using measures from reflectedW-design-en.pdf, applied to hexbeamcalcv3.xls, it seem for example, the driven elements are calculated for:
28,741
25,732
21,591
18,463
14,218

What is most accurate, using measure from .pdf or .xls ?

73, Giorgio iv3ddm

2299. Re: 5 bands Hex-beam ????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-01-13 17:04:40 UTC
From: dl7io
Topic: 2298 Message: 2299

Hello Giorgio,
hexbeamcalc... is a tool to estimate the values for monoband versions. The low impedance line conecting all radiators of course has an influence on the dimensions. You better go with the dimensions from the file!
regards Holger

--- In hex-beam@yahoogroups.com, "Giorgio" <giorgio.emili@l...> wrote:
>
>
> Hi to all.
>
> I am building my 5 bands hex-beam with the help of the DL7IO
> documents, found in files section.
>
> I am doubt with elements dimension: using measures from reflectedW-
> design-en.pdf, applied to hexbeamcalcv3.xls, it seem for example,
> the driven elements are calculated for:
> 28,741
> 25,732
> 21,591
> 18,463
> 14,218
>
> What is most accurate, using measure from .pdf or .xls ?
>
> 73, Giorgio iv3ddm

2300. Mounting below a vertical.

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-01-13 22:46:34 UTC
From: mga620000
Topic: 2300 Message: 2300

I bought the parts to build a 20 m Hex about three months ago. I machined a hub from a chunk of nylon and am using fiberglass poles.

My question has to do with mounting. My primary antenna is a Gap Titan which is acutally a vertical dipole. It needs no radials, so can be mounted at any height. I am getting ready to install a 30 foot aluminum tower for the veritcal, and wondered if the hexbeam could be mounted below it with the 1-1/4" mast for the vertical running up the center tube. A rotor would be attached to the mast and rotate the entire assembly.

Any thoughts?

2301. 6 Band Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-01-15 14:18:58 UTC
From: John
Topic: 2301 Message: 2301

Hello Hexbeamfans,
Its a while ago that I posted. Yesterday I added 6M
driven and reflector-elements to my HEXbeam, and aligned it with AEA-
antenna-analyser and looks very good to me. I bought black and red
wire in a near garage. Its 3,5mm innerdiameter and 5mm with
insulation. I used the dimensions from Holgers (DL7IO) monoband 6M-
HEXbeam, and after 2 times pruning (I fold back the wires) my
dimensions are exact 10cm (almost 4inch) smaller then from Holger.
I'm using a separate coax to feed the 6M-part of the HEXbeam.
I made a submap "6 Band Hexbeam" in my photomap "PA2JJB". Those
photos telling you more then lots of text. The first 2 photos showing
the damage when my HEXbeam come down after a hugh storm in june 2004.
I placed alu-profiles under the bamboos to strenghten them, and with
the big storm from last week over England, Holland and Scandinavie
only the 12M-reflector was broken, but the antenne itself is still
standing. I rotate the antenna by hand, because my TV-rotator was
also damage in the june-storm. Now i use 2 guidelines to give me and
my wife a better feeling when were alseep lol.

Lots of fun with this marvelous antenna and hope to hear from your
experiments..

73's de Jan PA2JJB Texel-Island IOTA EU-038

2302. Homebrew 20/17 Hex-beam info and pictures

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-01-15 14:54:41 UTC
From: W1GQL
Topic: 2302 Message: 2302

I have put a page about my wonderful homebrew 20/17 meter hex-beam on my website. It has some significant differences from others I have seen both in construction details and feed method. There is also information on how to make a coax choke balun.

This is the best antenna I have ever had, and this is my 50th year of hamming! I have had great success with it. Please Email me with your comments and any questions.

To get to the page point your browser to
http://www.midcoast.com/~w1gql/hex.htm

2303. winter foto

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-01-31 21:35:55 UTC
From: dl7io
Topic: 2303 Message: 2303

Hello,
it is very silent here. I have added a foto taken yesterday into the foto section under dl7io showing my house/tower/beam with some winter feeling.
regards Holger

2304. 30-40 m Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-02 01:28:30 UTC
From: w4wb
Topic: 2304 Message: 2304

After a long wait, I received my customized Hex-Beam for 30 and 40 m with the 40 m portion tuned for the CW sub-band. Mike Traffie used this antenna to experiment with some new/modified ideas to enhance the performance of the antenna. This is the first 30-40 m Hex-Beam shipped (he made one for experimenting a while back I understand, but then it morphed back to a 40 m HB). Both dual and a common feedline approaches were evaluated. The common feedline approach proved superior. From Mike's report, the antenna really sings!

All I have to do now is to install the tower I refurbished last year, get a suitable rotor, and then assemble and install the Hex-Beam. However, it is winter and that makes the opportunities to do the installations iffy. WX here has been like a late fall recently, not at all like that shown in the beautiful photograph Holger posted of his QTH.

My hope is to have it installed in time to work the Peter I DXpedition this month, but ... In any case, I will report upon my observations of the antenna's performance after I have had a bit of time to play with it.

My dream of having Hex-Beams covering 6 through 40 m is almost a reality thanks to Traffie. :-)

73,
Barry W4WB

2305. Re: 30-40 m Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-02 11:20:29 UTC
From: dl7io
Topic: 2304 Message: 2305

Hello Barry,
this sounds good. Send a picture if it is installed. I know you will like it! My log has mainly 30/40m entries since last summer. Try to bring it up to 60 feet or more and it will be a DX hammer.
Is the antenna feeded from the top (at 40m) or at the 30m element?
Is there a chance to get more details of the antenna like element sizes, spacings etc. to simulate it?
regards Holger

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
>
> After a long wait, I received my customized Hex-Beam for 30 and 40 m
> with the 40 m portion tuned for the CW sub-band. Mike Traffie used
> this antenna to experiment with some new/modified ideas to enhance
> the performance of the antenna. This is the first 30-40 m Hex-Beam
> shipped (he made one for experimenting a while back I understand, but
> then it morphed back to a 40 m HB). Both dual and a common feedline
> approaches were evaluated. The common feedline approach proved
> superior. From Mike's report, the antenna really sings!
>
> All I have to do now is to install the tower I refurbished last year,
> get a suitable rotor, and then assemble and install the Hex-Beam.
> However, it is winter and that makes the opportunities to do the
> installations iffy. WX here has been like a late fall recently, not
> at all like that shown in the beautiful photograph Holger posted of
> his QTH.
>
> My hope is to have it installed in time to work the Peter I
> DXpedition this month, but ... In any case, I will report upon my
> observations of the antenna's performance after I have had a bit of
> time to play with it.
>
> My dream of having Hex-Beams covering 6 through 40 m is almost a
> reality thanks to Traffie. :-)
>
> 73,
> Barry W4WB

2306. Re: 30-40 m Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-03 05:22:14 UTC
From: w4wb
Topic: 2304 Message: 2306

Hi Holger,

I will try to post a photo or two of the antenna when it was at Traffie's place. Seems that my tower installation will limit my height to about 55 feet. Not my desire, but that is what it will be. I agree that 60' would be nice, maybe a bit more.

It is fed like his other antennas ... from the top. I have no constructional data to provide. This is a custom and experimental antenna he optimized for my requirements. I expect that a slight variation will soon be available from Traffie as a commercial 40-30 m Hex-Beam ... bet it will be called the HX-4030i. :-) I have no idea what the production antenna price might be.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
>
> Hello Barry,
> this sounds good. Send a picture if it is installed. I know you will
> like it! My log has mainly 30/40m entries since last summer. Try to
> bring it up to 60 feet or more and it will be a DX hammer.
> Is the antenna feeded from the top (at 40m) or at the 30m element?
> Is there a chance to get more details of the antenna like element
> sizes, spacings etc. to simulate it?
> regards Holger
>

2307. 40 m hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-19 03:51:24 UTC
From: Dave
Topic: 2307 Message: 2307

Hello all,
New to group and interested in 40 m monoband hex beam design. Do anyone have one so I do not have to "rebuild the wheel" :)

Tnx in advance,
Dave W1CTN

2308. Re: 40 m hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-20 19:20:57 UTC
From: dl7io
Topic: 2307 Message: 2308

Dave,
If you check the databases you will find datas for mono- and multibanders with 40m included.
Here are the values for a design I calculated and built already:
half driven element: 1133 cm
half reflector element:1110 cm
insulator radiator/reflector: 27/21cm
or see message no. 1986
The other designs can be found in later messages or on my website:
www.dl7io.de
regards Holger

PS. I worked a few hundred W/VE stations last night (ARRL-test) on 40m. If I could catch one of you...thank you for the QSO.

PPS. I'm looking for a prototype tester for a 80m design. I will do all the antenna construction work but need somebody with a QTH for this size and a tower of min. 30m to install the antenna. A location in Germany would be preferred. A tower with the possibility to move the antenna easy up and down would be ideal. Than we could test different multiband designs e.g. 80/40/30m...

--- In hex-beam@yahoogroups.com, "Dave" <darruzza@a...> wrote:
>
>
> Hello all,
> New to group and interested in 40 m monoband hex beam design. Do
> anyone have one so I do not have to "rebuild the wheel" :)
>
> Tnx in advance,
> Dave W1CTN

2309. Side tower mount

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-21 23:57:47 UTC
From: Paul
Topic: 2309 Message: 2309

Hello,

I was looking at the Hex Beam website and noticed they have some sort of mount that stands off the side of a tower for multiple antennas. Does anyone know where you can get one of those?

Thanks,

Paul

2310. Re: [hex-beam] Side tower mount

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-23 04:18:05 UTC
From: Duke - NA1A
Topic: 2309 Message: 2310

Check out my website. Mine is homebrew and can hold up to 300 lbs.

73,
Duke - NA1A
http://pages.sbcglobal.net/na1a/Shack/

Please note: message attached

[Non-text portions of this message have been removed]

2311. VP2V

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-25 20:36:03 UTC
From: dl7io
Topic: 2311 Message: 2311

Hello,
the German crew around DL7DF is using a 5 band beam (20-10m) that I made.
We had a QSO on 17m today and compared with an R7 mounted a few meters higher than the beam and they were almost not readable while transmitting with the vertical.
regards Holger

2312. Re: [hex-beam] dl7df

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-26 11:03:34 UTC
From: mike hardy
Topic: 2312 Message: 2312

hi,
i wonder if theres anybody out there can make me a hex beam the 5 banded one
of if you know anybody who can build them before you start i have no free
time only
when my 3 year old twin boys are in bed has i look after them all week while
my xyl
works, so no time to play radio while after 20:00pm

will leave info for you te get hold of me below, i have tried beams force 12
c3ss mini beams
and wanted to go for a gem quad next but Jim M0CKE has put me right in
saying the hex beam
is the antenna to try.

looking fwd to your comments

Mike Hardy
M0FCG - M1KEY - 2E0KEY
mob - 07979764523
email: m0fcg1@...
m0fcg@...
http://www.freewebs.com/m0fcgts2000x/
life is a Kenwood ts2000 x &
a Icom ic-756 pro III

> Hello,
> the German crew around DL7DF is using a 5 band beam (20-10m) that I
> made.
> We had a QSO on 17m today and compared with an R7 mounted a few
> meters higher than the beam and they were almost not readable while
> transmitting with the vertical.
> regards Holger
>

2313. Experiences with a homemade 5 Band Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-26 14:17:19 UTC
From: wolfxc2003
Topic: 2313 Message: 2313

Hello to all the Hex-beam Group Users,

it's my first posting here, although I'm member of this groups since 2 years.
Thanks to the owner and moderator and all of you, who posted your ideas, comments and pictures and enabling this forum.

I'll put a file into the File Folder describing my experiences with a homemade 5 Band Hex-beam, compared to a GAP Eagle and 2 element monoband Yagis.

Thanks for reading.
Your comments are welcome.

73 from snow covered central Germany

Wolfgang
DL2XC

2314. Re: Experiences with a homemade 5 Band Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-26 18:13:05 UTC
From: w4wb
Topic: 2313 Message: 2314

Hi Wolfgang,

I can't find the file. Pse indicate more clearly where you placed it.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "wolfxc2003" <WolfTilch@a...> wrote:
>
>
> Hello to all the Hex-beam Group Users,
>
> it's my first posting here, although I'm member of this groups
since
> 2 years.
> Thanks to the owner and moderator and all of you, who posted your
> ideas, comments and pictures and enabling this forum.
>
> I'll put a file into the File Folder describing my experiences with
a
> homemade 5 Band Hex-beam, compared to a GAP Eagle and 2 element
> monoband Yagis.
>
> Thanks for reading.
> Your comments are welcome.
>
> 73 from snow covered central Germany
>
> Wolfgang
> DL2XC

2315. Contact DL7IO.de he has parts full kit

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-26 22:31:01 UTC
From: Kevin Adam N9IWW
Topic: 2312 Message: 2315

Contact DL7IO he has a full parts list and sells just what u need but you
will still have assemble it all measurements are in the files area of the
yahoo group complete measurement in metric in Dl7IO folder look there.
N9IWW
If you want it from the usa then go to http://www.msg4u.com
Since your in the uk go to your local fishing shop find some poles 9-10
meter long these will work just fine telescoping kind. Need 6 each.

http://www.dl7io.de/reflectedw/index.html

-----Original Message-----
From: mike hardy [mailto:m0fcg1@...]
Sent: Saturday, February 26, 2005 6:04 AM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] dl7df

hi,
i wonder if theres anybody out there can make me a hex beam the 5 banded one
of if you know anybody who can build them before you start i have no free
time only
when my 3 year old twin boys are in bed has i look after them all week while

my xyl
works, so no time to play radio while after 20:00pm

will leave info for you te get hold of me below, i have tried beams force 12

c3ss mini beams
and wanted to go for a gem quad next but Jim M0CKE has put me right in
saying the hex beam
is the antenna to try.

looking fwd to your comments

Mike Hardy
M0FCG - M1KEY - 2E0KEY
mob - 07979764523
email: m0fcg1@...
m0fcg@...
http://www.freewebs.com/m0fcgts2000x/
life is a Kenwood ts2000 x &
a Icom ic-756 pro III

> Hello,
> the German crew around DL7DF is using a 5 band beam (20-10m) that I
> made.
> We had a QSO on 17m today and compared with an R7 mounted a few

> meters higher than the beam and they were almost not readable while
> transmitting with the vertical.
> regards Holger
>

Yahoo! Groups Links

2316. Re: [hex-beam] Contact DL7IO.de he has parts full kit

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-27 00:32:22 UTC
From: J. Michael Thurman
Topic: 2312 Message: 2316

Greetings,

The msg4u URL listed below failed. Are they just having a bad DNS day or have they moved, quit, etc?
73 es gud DX,
Michael
WN5T

At 04:31 PM 2/26/05, you wrote:

>...snip...
> If you want it from the usa then go to http://www.msg4u.com
>Since your in the uk go to your local fishing shop find some poles 9-10
>meter long these will work just fine telescoping kind. Need 6 each.
>...snip...

2317. Re: [hex-beam] Contact DL7IO.de he has parts full kit

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-27 03:30:41 UTC
From: J. Michael Thurman
Topic: 2312 Message: 2317

Found it in the archives... www.mgs4u.com

73,
Michael
WN5T
At 06:32 PM 2/26/05, you wrote:

>Greetings,
>
>The msg4u URL listed below failed. Are they just having a bad DNS day or
>have they moved, quit, etc?
>73 es gud DX,
>Michael
>WN5T
>
>At 04:31 PM 2/26/05, you wrote:
>
> >...snip...
> > If you want it from the usa then go to http://www.msg4u.com
> >Since your in the uk go to your local fishing shop find some poles 9-10
> >meter long these will work just fine telescoping kind. Need 6 each.
> >...snip...
>
>
>
>
>
>
>
>Yahoo! Groups Links
>
>
>
>

2318. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-02-27 13:42:07 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 2318

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /Experiences with a 5 Band homemade Hex-beam..doc
Uploaded by : wolfxc2003 <WolfTilch@...>
Description : Hex-beam, GAP Eagle, 2 Ele Yagis in practice

You can access this file at the URL:
http://groups.yahoo.com/group/hex-beam/files/Experiences%20with%20a%205%20Band%20homemade%20Hex-beam..doc

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

wolfxc2003 <WolfTilch@...>

2319. Anyone tried to convert a 15-10 duo Hexbeam to 20 -17 meters?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-05 15:17:46 UTC
From: gdguy21
Topic: 2319 Message: 2319

My 15-10 meter beam isn't the place to be. AWondering if anyone has tried lenghtening the arms with bamboo and adding length to the wire elements?

Thanks

2320. Re: Anyone tried to convert a 15-10 duo Hexbeam to 20 -17 meters?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-07 07:57:12 UTC
From: dl7io
Topic: 2319 Message: 2320

Dear gdguy21,
you can find a version on my page. Here are EZNEC-files and a pdf-summary with details on lengths, gain, SWR etc.
regards Holger
http://www.dl7io.de

--- In hex-beam@yahoogroups.com, "gdguy21" <gdguy21@y...> wrote:
>
> My 15-10 meter beam isn't the place to be. AWondering if anyone has
> tried lenghtening the arms with bamboo and adding length to the wire
> elements?
>
> Thanks

2321. Moxon vs Hexbeam ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-08 12:40:24 UTC
From: K0PYK
Topic: 2321 Message: 2321

HexBeamer's
I have been thinking about a 17 meter antenna...Did
some research at various sites. Both moxon and hexbeam
came up as possible choices for wire beam antennas.
The info suggests that the moxon has a slighly better
gain and improved f/b. I like the concept of a light
beam on the tower with my tri-bander.
I look forward to you thoughts.
Tom, K0PYK

_____
Celebrate Yahoo!'s 10th Birthday!
Yahoo! Netrospective: 100 Moments of the Web
http://birthday.yahoo.com/netrospective/

2322. Re: Moxon vs Hexbeam ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-08 14:38:28 UTC
From: dl7io
Topic: 2321 Message: 2322

Hello Tom,
the gain difference is marginal --> 0,x dBi.
F/B is much better on the moxon and of course for a single band the
mechanical part is much easier to handle.
Multiband designs are harder to find.
For more details I recommend: http://www.cebik.com
Go to "tales and techniques" and find many good articles on moxon's
and other kinds of antennas.
regards Holger

--- In hex-beam@yahoogroups.com, K0PYK <k0pyk@y...> wrote:
> HexBeamer's
> I have been thinking about a 17 meter antenna...Did
> some research at various sites. Both moxon and hexbeam
> came up as possible choices for wire beam antennas.
> The info suggests that the moxon has a slighly better
> gain and improved f/b. I like the concept of a light
> beam on the tower with my tri-bander.
> I look forward to you thoughts.
> Tom, K0PYK
>
>
>
>
> _____
> Celebrate Yahoo!'s 10th Birthday!
> Yahoo! Netrospective: 100 Moments of the Web
> http://birthday.yahoo.com/netrospective/

2323. Moxon vs Hexbeam ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-09 09:36:48 UTC
From: David Douglass
Topic: 2321 Message: 2323

Tom,

I'd have to say that on performance, the Moxon would be the better choice, due to its excellent FB ratio. But if size, mechanical strength and wind loading are important considerations the HexBeam would be clear winner.

If your thinking about putting the 17m below your Tri-bander, it would also be more straight forward with the Moxon.

GL

David, Vk2NU

>
> Message: 1
> Date: Tue, 8 Mar 2005 04:40:24 -0800 (PST)
> From: K0PYK <k0pyk@...>
> Subject: Moxon vs Hexbeam ???
>
> HexBeamer's
> I have been thinking about a 17 meter antenna...Did
> some research at various sites. Both moxon and hexbeam
> came up as possible choices for wire beam antennas.
> The info suggests that the moxon has a slighly better
> gain and improved f/b. I like the concept of a light
> beam on the tower with my tri-bander.
> I look forward to you thoughts.
> Tom, K0PYK
>
>
>
>
> _____
> Celebrate Yahoo!'s 10th Birthday!
> Yahoo! Netrospective: 100 Moments of the Web
> http://birthday.yahoo.com/netrospective/
>
>

2324. My Hexbeam photo-album

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-12 12:11:27 UTC
From: John
Topic: 2324 Message: 2324

Hello Hexbeam-lovers,
You can see the building of my HEX-beam step by
step to surf to my photo-album at:

http://pg.photos.yahoo.com/ph/johndeilander/my_photos

The names off the pictures will be changed in the near feature.

Hope you can use those pics to build your own HEX-beam

73's de Jan PA2JJB

2325. HEXBEAM SWR ON 15 METERS

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-14 00:26:27 UTC
From: Paulo
Topic: 2325 Message: 2325

I JUST ASSEMBLE MY 5-band HX-5Bi. rEGARDING swr RESULTS ALL BANDAS
THEY GO FROM 1.4.TO 1.7 MAX....EXCEPTION MADE TO 15 METERS THAT I
HAVE 3.1..3.2
I MOVED THE HEXBEAM FROM DIFFERENT PLACES ..AND WIRES AROUND..THIS
BAND SWR NEVER MOVES DOWN FROM 3.0..
CAN SOMEONE HELP ME TO FIND A SOLUTION FOR MY SWR...

THANK YOU
CT1ITZ EX CT2

2326. Re: [hex-beam] HEXBEAM SWR ON 15 METERS

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-14 01:42:38 UTC
From: k1eg@matrix-computers.com
Topic: 2325 Message: 2326

Congrats Paulo on getting your beam built. After you solve the problem on
15 meters I hope you get to enjoy it.

Ciao
Mike
K1EG

----- Original Message -----
From: "Paulo" <paulo.paixao@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, March 13, 2005 6:26 PM
Subject: [hex-beam] HEXBEAM SWR ON 15 METERS

>
>
>
> I JUST ASSEMBLE MY 5-band HX-5Bi. rEGARDING swr RESULTS ALL BANDAS
> THEY GO FROM 1.4.TO 1.7 MAX....EXCEPTION MADE TO 15 METERS THAT I
> HAVE 3.1..3.2
> I MOVED THE HEXBEAM FROM DIFFERENT PLACES ..AND WIRES AROUND..THIS
> BAND SWR NEVER MOVES DOWN FROM 3.0..
> CAN SOMEONE HELP ME TO FIND A SOLUTION FOR MY SWR...
>
> THANK YOU
> CT1ITZ EX CT2
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>
> Yahoo! Groups Links
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2327. Re: HEXBEAM SWR ON 15 METERS

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-14 09:26:03 UTC
From: dl7io
Topic: 2325 Message: 2327

Hello,
have you mixed reflector and driven elements? Than you probably have
the same result. If this does not happen, please measure the length
of the 15m elements and let us know.
BR Holger

--- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
>
>
> I JUST ASSEMBLE MY 5-band HX-5Bi. rEGARDING swr RESULTS ALL BANDAS
> THEY GO FROM 1.4.TO 1.7 MAX....EXCEPTION MADE TO 15 METERS THAT I
> HAVE 3.1..3.2
> I MOVED THE HEXBEAM FROM DIFFERENT PLACES ..AND WIRES AROUND..THIS
> BAND SWR NEVER MOVES DOWN FROM 3.0..
> CAN SOMEONE HELP ME TO FIND A SOLUTION FOR MY SWR...
>
> THANK YOU
> CT1ITZ EX CT2

2328. Re: [hex-beam] HEXBEAM SWR ON 15 METERS

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-14 10:29:53 UTC
From: JAMES BALLS
Topic: 2325 Message: 2328

Paulo,

Also check the Coax is good, I had a problem with my Home Made 5 Bander, I could not get aceptable SWR on 15M, It took me 2 weeks of hard work before I swapped out the coax to find everything was OK after this.

I thought the first Coax was OK as it worked fine on another antenna, but after chaning it for a similar length cable the problems were gone.

It's worth a try if all else fails.

I hope you get it sorted soon,

73's Jim M0CKE

Paulo <paulo.paixao@...> wrote:

I JUST ASSEMBLE MY 5-band HX-5Bi. rEGARDING swr RESULTS ALL BANDAS
THEY GO FROM 1.4.TO 1.7 MAX....EXCEPTION MADE TO 15 METERS THAT I
HAVE 3.1..3.2
I MOVED THE HEXBEAM FROM DIFFERENT PLACES ..AND WIRES AROUND..THIS
BAND SWR NEVER MOVES DOWN FROM 3.0..
CAN SOMEONE HELP ME TO FIND A SOLUTION FOR MY SWR...

THANK YOU
CT1ITZ EX CT2

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Yahoo! Groups Links

To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2329. Re: HEXBEAM SWR ON 15 METERS

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-14 13:01:08 UTC
From: w4wb
Topic: 2325 Message: 2329

Hi Paulo,

My first guess is that Holger is correct. Since you have the commercial version of the Hex-Beam, the simple way to check to see if the elements are reversed is to look at the color of the connector going to the center post. Red is for the driven elements and black is for the reflector. This wouldn't be the first time anyone mixed them up by reversing or by having one red and black for each the driven and reflector elements!

FWIW, if you have the colors matched, then I would quickly measured the lengths of the driven and relector elements to be sure the color coding was correct from the manufacturer. The red elements should be shorter than the black elements.

GL es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
>
> Hello,
> have you mixed reflector and driven elements? Than you probably
have
> the same result. If this does not happen, please measure the length
> of the 15m elements and let us know.
> BR Holger
>
> --- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
> >
> >
> > I JUST ASSEMBLE MY 5-band HX-5Bi. rEGARDING swr RESULTS ALL
BANDAS
> > THEY GO FROM 1.4.TO 1.7 MAX....EXCEPTION MADE TO 15 METERS THAT I
> > HAVE 3.1..3.2
> > I MOVED THE HEXBEAM FROM DIFFERENT PLACES ..AND WIRES
AROUND..THIS
> > BAND SWR NEVER MOVES DOWN FROM 3.0..
> > CAN SOMEONE HELP ME TO FIND A SOLUTION FOR MY SWR...
> >
> > THANK YOU
> > CT1ITZ EX CT2

2330. Re: HEXBEAM SWR ON 15 METERS

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-14 15:42:25 UTC
From: w4wb
Topic: 2325 Message: 2330

Paulo,

Another thought is have you checked to see if the antenna shows good front-to-back ratio on those bands that do work?

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
>
>
> I JUST ASSEMBLE MY 5-band HX-5Bi. rEGARDING swr RESULTS ALL BANDAS
> THEY GO FROM 1.4.TO 1.7 MAX....EXCEPTION MADE TO 15 METERS THAT I
> HAVE 3.1..3.2
> I MOVED THE HEXBEAM FROM DIFFERENT PLACES ..AND WIRES AROUND..THIS
> BAND SWR NEVER MOVES DOWN FROM 3.0..
> CAN SOMEONE HELP ME TO FIND A SOLUTION FOR MY SWR...
>
> THANK YOU
> CT1ITZ EX CT2

2331. SWR ON 15 AND NO F/B HB5I ORIGINAL

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-14 21:21:09 UTC
From: Paulo
Topic: 2331 Message: 2331

Dear friends..
I can not still solve my problem:
15 meters still 3.1...3.2 SWR

The FB does not exist, i mean i made aqso today with i.e GP0 and TM6 UK and france and their signal was with beam in their direction 5/9+10... then i went upsatairs and i moved the antenna to 240º their signal just the SAME.

There is F/B in this antenna....I worked TO7C French Guyana Dexpedition with 37º is this possible..they turn to 240 º and his signal was the same.

What do i do??

Why the antenna is soooooo difficult.....????

I will put some photos on my file so you can see and help me ok?
I took a few moments ago..with the antenna on the roof..

I feel very sad abou this

Paulo

CT1ITZ

2332. HELP ME TO PUT THE PHOTOS OF MY ANTENNA

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-14 22:25:56 UTC
From: Paulo
Topic: 2332 Message: 2332

WHEN I TRY TO GO TO PHOTOS I HAVE THE MESSAGE

Error
GROUP_CHECK

gpg14.bc.scd.yahoo.com:GROUP_CHECK

2333. MESURE OF 15 METERS WIRES RED AND BLACK

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 01:06:16 UTC
From: Paulo
Topic: 2333 Message: 2333

My friends..just to tell you that i have made the measures of both wires : the black wires are bigger around 6,5 cm than the red..Is this info going to help me..
Count with your help to solve this problem..because the manufacturer is not helping at all so i just can count with you my friends..
waiting to hear from you..

Another thing i took all wires of 15 meters and has not affect the antenna in a negative way regarding SWR....

2334. Re: MESURE OF 15 METERS WIRES RED AND BLACK

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 02:08:43 UTC
From: gerry_schjelderup
Topic: 2333 Message: 2334

--- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
>
>
> My friends..just to tell you that i have made the measures of both
> wires : the black wires are bigger around 6,5 cm than the red..Is
> this info going to help me..
> Count with your help to solve this problem..because the
manufacturer
> is not helping at all so i just can count with you my friends..
> waiting to hear from you..
>
> Another thing i took all wires of 15 meters and has not affect the
> antenna in a negative way regarding SWR....

Paulo,
Please be advised that it is the Length of the elements you must
check to be correct,not the gauge or thickness of the elements. Good
luck, Paulo

Gerry KC0MSX

2335. Re: SWR ON 15 AND NO F/B HB5I ORIGINAL

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 05:14:58 UTC
From: w4wb
Topic: 2331 Message: 2335

Paulo,

This is interesting information. The lack of F/B indicates to me that you are not radiating with the Hex-Beam as it is designed. The Hex-Beam has excellent F/B (as well as SWR) when installed correctly. Are you certain that your coax is okay? I have seen folks radiating from broken coax before.

Something is very wrong with the installation Paulo. You are having the behavior of a vertical antenna. I am aware that you sent an email to Traffie and commented that the signal levels from the Hex-Beam are 3 dB DOWN from your dipole (although you have not shared this information on the list). Again, that indicates that something is very wrong with your installation.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
>
> Dear friends..
> I can not still solve my problem:
> 15 meters still 3.1...3.2 SWR
>
> The FB does not exist, i mean i made aqso today with i.e GP0 and
> TM6 UK and france and their signal was with beam in their
direction
> 5/9+10... then i went upsatairs and i moved the antenna to 240º
> their signal just the SAME.
>
> There is F/B in this antenna....I worked TO7C French Guyana
> Dexpedition with 37º is this possible..they turn to 240 º and his
> signal was the same.
>
> What do i do??
>
> Why the antenna is soooooo difficult.....????
>
> I will put some photos on my file so you can see and help me ok?
> I took a few moments ago..with the antenna on the roof..
>
> I feel very sad abou this
>
> Paulo
>
> CT1ITZ

2336. Re: HELP ME TO PUT THE PHOTOS OF MY ANTENNA

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 05:20:40 UTC
From: w4wb
Topic: 2332 Message: 2336

Paulo,

Try again to put your photo in the Photos Section. It was over full
and I had to delete some material to make room for newer photos.

Tnx,
Barry W4WB
Moderator

--- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
>
> WHEN I TRY TO GO TO PHOTOS I HAVE THE MESSAGE
>
> Error
> GROUP_CHECK
>
>
>
> gpg14.bc.scd.yahoo.com:GROUP_CHECK

2337. My Hexbeam Installation

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 04:04:26 UTC
From: Bill Metzger
Topic: 2337 Message: 2337

For those that might be interested, the following link will take you to images of my Hexbeam installation. The antenna works terrific. One interesting thing noticed about it is the very low SWR (1.5 or less on 20 and 1.1 on all other) and the reports I've received. In virtually all cases a DX station hears me clearly even though I can barely can hear them. Using an Icom 756PROII either at 100 watts or via an Alpha 99 at 1 KW. I'm very impressed with the performance.

http://www.themetzgerplace.com/hexbeam/index.html

Bill

[Non-text portions of this message have been removed]

2338. Re: [hex-beam] My Hexbeam Installation

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 06:37:56 UTC
From: k1eg@matrix-computers.com
Topic: 2337 Message: 2338

Bill I am curious are you saying this beam transmits better than it hears?

Mike
K1EG
----- Original Message -----
From: "Bill Metzger" <wmetzger@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, March 14, 2005 10:04 PM
Subject: [hex-beam] My Hexbeam Installation

>
>
> For those that might be interested, the following link will take you to
> images of my Hexbeam installation. The antenna works terrific. One
> interesting thing noticed about it is the very low SWR (1.5 or less on 20
> and 1.1 on all other) and the reports I've received. In virtually all
cases
> a DX station hears me clearly even though I can barely can hear them.
Using
> an Icom 756PROII either at 100 watts or via an Alpha 99 at 1 KW. I'm very
> impressed with the performance.
>
> http://www.themetzgerplace.com/hexbeam/index.html
>
> Bill
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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2339. Re: MESURE OF 15 METERS WIRES RED AND BLACK

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 08:06:34 UTC
From: Paulo
Topic: 2333 Message: 2339

--- In hex-beam@yahoogroups.com, "gerry_schjelderup" <KC0MSX@a...>
wrote:
>
> --- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
> >
> >
> > My friends..just to tell you that i have made the measures of
both
> > wires : the black wires are bigger around 6,5 cm than the
red..Is
> > this info going to help me..
> > Count with your help to solve this problem..because the
> manufacturer
> > is not helping at all so i just can count with you my friends..
> > waiting to hear from you..
> >
> > Another thing i took all wires of 15 meters and has not affect
the
> > antenna in a negative way regarding SWR....
>
> Paulo,
> Please be advised that it is the Length of the elements you
must
> check to be correct,not the gauge or thickness of the elements.
Good
> luck, Paulo
>
> Gerry KC0MSX

Hi Gerry..
Please lets see if i understand english:what do you mean by the
elements(Spreaders..or the different wires that give shape to the
antenna 2 red and 2 black for each band?..If its so ..thats what i
did: the black elements are around 6.5 com longer than the red ones
(2).i took the 4 4 wires brought down to the QTH , and i got that
results.Is this what you mean? Thank you for your support.
Ct1ITZ
Paulo

2340. PHOTOS OF MY INSTALATION

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 08:28:27 UTC
From: Paulo
Topic: 2340 Message: 2340

JUST A FEW PHOTOS ARE ON MY FILE..HOPE IT CAN HELP.

IT IS TRUE..MY hEX IS BEHAVING LIKE A VERTICAL ANTENA ..HAS NO
BEAM..IT DOES NOT MATTER IF ITS NORTH OR SOUTH THE SIGNALS ARE THE
SAME..
MY ROTARY DIPOLE TRAPPED..GIVES BETTER SIGNALS...I.E..WHEN I TURN MY
DIPOLE TO NORTH EAST,THE SIGNAL OF US AND CANADIAN STATIONS GO DOWN
IMMEDIATLY 3-4 DBS.
MAY BE THE PICTURES CAN HELP....
THANK YOU VERY MUCH..
CT1ITZ
PAULO

2341. Re: [hex-beam] Re: MESURE OF 15 METERS WIRES RED AND BLACK

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 08:34:59 UTC
From: Jim Balls
Topic: 2333 Message: 2341

Paulo.

OK
The wires are the elements 2 red & 2 black for each band
The Supports are the Spreaders

So the 20M elements are at the top of the antenna, then 17M then 15M then 12M then 10M OK

All the red elements are the Driven elements are should be connected to the same side of the support pole in the center (These must be where the coax connects to, check this out with a continuity tester or multimeter to ensure they are all connected, one row of connectors the the center of the plug and the other row to the outer of the plug.

Now on the other side of the center pole are the reflector (Black Wires) connectors again all the Black wire must be connected to this side of the center pole.

Is all the above clear and correct, come back once we have established this.

Also are you using a Coax Balun, is it the coiled coax on a former or is it ferrite beads?

Regards,

Jim M0CKE

Paulo wrote:

>
> --- In hex-beam@yahoogroups.com, "gerry_schjelderup" <KC0MSX@a...>
> wrote:
> >
> > --- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
> > >
> > >
> > > My friends..just to tell you that i have made the measures of
> both
> > > wires : the black wires are bigger around 6,5 cm than the
> red..Is
> > > this info going to help me..
> > > Count with your help to solve this problem..because the
> > manufacturer
> > > is not helping at all so i just can count with you my friends..
> > > waiting to hear from you..
> > >

> > > Another thing i took all wires of 15 meters and has not affect
> the
> > > antenna in a negative way regarding SWR....
> >
> > Paulo,
> > Please be advised that it is the Length of the elements you
> must
> > check to be correct,not the gauge or thickness of the elements.
> Good
> > luck, Paulo
> >
> > Gerry KC0MSX
>
>
> Hi Gerry..
> Please lets see if i understand english:what do you mean by the
> elements(Spreaders..or the different wires that give shape to the
> antenna 2 red and 2 black for each band?..If its so ..thats what i
> did: the black elements are around 6.5 com longer than the red ones
> (2).i took the 4 4 wires brought down to the QTH , and i got that
> results.Is this what you mean? Thank you for your support.
> Ct1ITZ
> Paulo
>
>
>
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> click here
> <http://us.ard.yahoo.com/SIG=129bagdl0/M=298184.6018725.7038619.3001176/D=groups/S=1705063108:HM/EXP=1110960470/A=2593423/R=0/SIG=11el9gslf/*http://www.netflix.com/Default?mqso=60190075>
>
>
>
> ---
> *Yahoo! Groups Links*
>
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/hex-beam/
>
> * To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
> <mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>

2342. Hi Jim and Gerry

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 08:55:41 UTC
From: Paulo
Topic: 2342 Message: 2342

Iam not using the ferrites at the moment..my coax is the new foiled cable BIAS ,,pls Jim Have a look to my photos o just post in the site..
Thank you
Paulo

2343. Re: [hex-beam] PHOTOS OF MY INSTALATION

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 09:18:55 UTC
From: k1eg@matrix-computers.com
Topic: 2340 Message: 2343

Paulo after looking at your pictures I am as confused as you are. I saw nothing in those pictures that shows anything wrong. I believe that maybe you need to look at your coax as the possible source of your problem.

Ciao
Mike
K1EG
----- Original Message -----
From: "Paulo" <paulo.paixao@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, March 15, 2005 2:28 AM
Subject: [hex-beam] PHOTOS OF MY INSTALATION

>
>
> JUST A FEW PHOTOS ARE ON MY FILE..HOPE IT CAN HELP.
>
> IT IS TRUE..MY hEX IS BEHAVING LIKE A VERTICAL ANTENA ..HAS NO
> BEAM..IT DOES NOT MATTER IF ITS NORTH OR SOUTH THE SIGNALS ARE THE
> SAME..
> MY ROTARY DIPOLE TRAPPED..GIVES BETTER SIGNALS...I.E..WHEN I TURN MY
> DIPOLE TO NORTH EAST,THE SIGNAL OF US AND CANADIAN STATIONS GO DOWN
> IMMEDIATLY 3-4 DBS.
> MAY BE THE PICTURES CAN HELP....
> THANK YOU VERY MUCH..
> CT1ITZ
> PAULO
>
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> Yahoo! Groups Links
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>

2344. Re: PHOTOS OF MY INSTALATION

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 09:45:38 UTC
From: dl7io
Topic: 2340 Message: 2344

Hello Paulo,
please tell us the height your antenna has above the roof while you
made those tests? Have you any pictures made whith the antenna
installed at the final position?
regards Holger

--- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
>
> JUST A FEW PHOTOS ARE ON MY FILE..HOPE IT CAN HELP.
>
> IT IS TRUE..MY hEX IS BEHAVING LIKE A VERTICAL ANTENA ..HAS NO
> BEAM..IT DOES NOT MATTER IF ITS NORTH OR SOUTH THE SIGNALS ARE THE
> SAME..
> MY ROTARY DIPOLE TRAPPED..GIVES BETTER SIGNALS...I.E..WHEN I TURN
MY
> DIPOLE TO NORTH EAST,THE SIGNAL OF US AND CANADIAN STATIONS GO DOWN
> IMMEDIATLY 3-4 DBS.
> MAY BE THE PICTURES CAN HELP....
> THANK YOU VERY MUCH..
> CT1ITZ
> PAULO

2345. Re: PHOTOS OF MY INSTALATION

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 15:50:12 UTC
From: w4wb
Topic: 2340 Message: 2345

Paulo,

Thanks for the photos. Here are a few comments.

1. You have the coax on the wrong side of the mast. It should be on the "cold" side. Read your instruction sheets yet again.

2. I suggest that you take an Ohm meter and make a few measurements.

a. disconnect the coax from the antenna.
b. place one probe on the driven 20 m element (hot side or center conductor) and the other to the center of the antenna connector. It should show essentially zero Ohms.
c. leave the probe on the 20 meter element and then touch with the other probe each of the other elements on the hot side. Each should show essentially zero Ohms.
d. repeat on the cold side (go to shield on antenna connector this time).
e. put probe on 20 m reflector and check to see if element have connection from one side to other.
f. check to see that reflectors are NOT shorted to driven elements.

3. Now WITH THE COAX AT THE ANTENNA STILL DISCONNECTED, see what your SWR is on the different bands. You will not be the first to have foul feed line.

Please advise of your results Paulo. There is something wrong with the setup ... antenna construction/assembly, coax, etc.

GL,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
>
> JUST A FEW PHOTOS ARE ON MY FILE..HOPE IT CAN HELP.
>
> IT IS TRUE..MY hEX IS BEHAVING LIKE A VERTICAL ANTENA ..HAS NO
> BEAM..IT DOES NOT MATTER IF ITS NORTH OR SOUTH THE SIGNALS ARE THE
> SAME..
> MY ROTARY DIPOLE TRAPPED..GIVES BETTER SIGNALS...I.E..WHEN I TURN
MY
> DIPOLE TO NORTH EAST,THE SIGNAL OF US AND CANADIAN STATIONS GO DOWN
> IMMEDIATLY 3-4 DBS.
> MAY BE THE PICTURES CAN HELP....
> THANK YOU VERY MUCH..
> CT1ITZ
> PAULO

2346. Hi Holger..

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 20:49:01 UTC
From: Paulo
Topic: 2346 Message: 2346

The experience was done in a mast with 5 meters from the house of the roof.
I bought a new coax cable this afternoon..its BIAS..low looses and conditions are a bit better..in alll bandas ..clear..but my problem is still 15 meters..and i get station from North Europe with the same signal with reflected side or driven side to them...it isa pitty you are away otherwise i could make a test with you..

Holger please tell me what happens if i put my antenna at 15 meters high?? In my tower..

Tks a lot to you and all friends from this HEX group..i fell real HamRadio spirit and frienship here....i am going down but you do not let me go down..you want to save me with all the knowledge you have!! Thank you all of you for your concern.
Take care..and lets see if my Hexproblem can be solved..even if i invite Holger, Barry , Doug... to spent a few days in the Algarve.(good shellfish and red-green wine..grilled sardines..this is the place)....then i will be sure my hexbeam will be 100% :-)

Paulo

2347. Re: PHOTOS OF MY INSTALATION

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 20:50:30 UTC
From: t_ashland
Topic: 2340 Message: 2347

Anybody notice in the photo, that one of the reflector wires looks
loose or not connected properly? I am talking about this pic:
antena 110---1
I also noted on the pic, the coax is practically laying on the
reflector elements. Just a thought.....
Terry, WK0F

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
>
> Paulo,
>
> Thanks for the photos. Here are a few comments.
>
> 1. You have the coax on the wrong side of the mast. It should be
on
> the "cold" side. Read your instruction sheets yet again.
>
> 2. I suggest that you take an Ohm meter and make a few measurements.
>
> a. disconnect the coax from the antenna.
> b. place one probe on the driven 20 m element (hot side or
center
> conductor) and the other to the center of the antenna connector.
It
> should show essentially zero Ohms.
> c. leave the probe on the 20 meter element and then touch with
the
> other probe each of the other elements on the hot side. Each
should
> show essentially zero Ohms.
> d. repeat on the cold side (go to shield on antenna connector
this
> time).
> e. put probe on 20 m reflector and check to see if element have
> connection from one side to other.
> f. check to see that reflectors are NOT shorted to driven
elements.
>
> 3. Now WITH THE COAX AT THE ANTENNA STILL DISCONNECTED, see what
your
> SWR is on the different bands. You will not be the first to have
> foul feed line.
>
> Please advise of your results Paulo. There is something wrong with
> the setup ... antenna construction/assembly, coax, etc.

>
> GL,
> Barry W4WB
>
>
> --- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
> >
> > JUST A FEW PHOTOS ARE ON MY FILE..HOPE IT CAN HELP.
> >
> > IT IS TRUE..MY hEX IS BEHAVING LIKE A VERTICAL ANTENA ..HAS NO
> > BEAM..IT DOES NOT MATTER IF ITS NORTH OR SOUTH THE SIGNALS ARE
THE
> > SAME..
> > MY ROTARY DIPOLE TRAPPED..GIVES BETTER SIGNALS...I.E..WHEN I TURN
> MY
> > DIPOLE TO NORTH EAST,THE SIGNAL OF US AND CANADIAN STATIONS GO
DOWN
> > IMMEDIATLY 3-4 DBS.
> > MAY BE THE PICTURES CAN HELP....
> > THANK YOU VERY MUCH..
> > CT1ITZ
> > PAULO

2348. Re: PHOTOS OF MY INSTALATION

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 20:54:44 UTC
From: Paulo
Topic: 2340 Message: 2348

--- In hex-beam@yahoogroups.com, <k1eg@m...> wrote:
> Paulo after looking at your pictures I am as confused as you are.
I saw
> nothing in those pictures that shows anything wrong. I believe
that maybe
> you need to look at your coax as the possible source of your
problem.
>
> Ciao
> Mike
> K1EG
> ----- Original Message -----
> From: "Paulo" <paulo.paixao@n...>
> To: <hex-beam@yahoogroups.com>
> Sent: Tuesday, March 15, 2005 2:28 AM
> Subject: [hex-beam] PHOTOS OF MY INSTALATION
>
> Hi Mike..
I did bough the BIAS low looses Coax cable this afternoon ..a bit
improvment was felt..the only thing i did not try was the shock with
the ferrites ..which i bought from Palomar Engineers...
I will put the in a few moments ..2 radio hams are coming to help me
watch the situation..its going to be a long night..they are used to
deal with cubical quads so i aspect a bit help from them ..we will
take all wires ..and start from the begining..
Best 73´s
I will tell the news ASAP..
Paulo
> >
> >
> > JUST A FEW PHOTOS ARE ON MY FILE..HOPE IT CAN HELP.
> >
> > IT IS TRUE..MY hEX IS BEHAVING LIKE A VERTICAL ANTENA ..HAS NO
> > BEAM..IT DOES NOT MATTER IF ITS NORTH OR SOUTH THE SIGNALS ARE
THE
> > SAME..
> > MY ROTARY DIPOLE TRAPPED..GIVES BETTER SIGNALS...I.E..WHEN I
TURN MY
> > DIPOLE TO NORTH EAST,THE SIGNAL OF US AND CANADIAN STATIONS GO
DOWN
> > IMMEDIATLY 3-4 DBS.
> > MAY BE THE PICTURES CAN HELP....
> > THANK YOU VERY MUCH..
> > CT1ITZ
> > PAULO

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> > Yahoo! Groups Links
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2349. Re: [hex-beam] Hi Holger..

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-16 02:55:29 UTC
From: k1eg@matrix-computers.com
Topic: 2346 Message: 2349

Paulo you keep that up and everybody on the list will be coming for that
great food.

Ciao
Mike K1EG

----- Original Message -----
From: "Paulo" <paulo.paixao@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, March 15, 2005 2:49 PM
Subject: [hex-beam] Hi Holger..

>
>
> The experience was done in a mast with 5 meters from the house of
> the roof.
> I bought a new coax cable this afternoon..its BIAS..low looses and
> conditions are a bit better..in alll bandas ..clear..but my problem
> is still 15 meters..and i get station from North Europe with the
> same signal with reflected side or driven side to them...it isa
> pitty you are away otherwise i could make a test with you..
>
> Holger please tell me what happens if i put my antenna at 15 meters
> high?? In my tower..
>
> Tks a lot to you and all friends from this HEX group..i fell real
> HamRadio spirit and frienship here....i am going down but you do not
> let me go down..you want to save me with all the knowledge you have!!
> Thank you all of you for your concern.
> Take care..and lets see if my Hexproblem can be solved..even if i
> invite Holger, Barry , Doug... to spent a few days in the Algarve.(
> good shellfish and red-green wine..grilled sardines..this is the
> place)....then i will be sure my hexbeam will be 100% :-)
>
> Paulo
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> Yahoo! Groups Links
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2350. RFI via Rotor Cable?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-15 20:21:31 UTC
From: Brad Johnson
Topic: 2350 Message: 2350

Hi All...

Been enjoying my 5 Band Hex Beam for a couple of years with no problems and have been very pleased with the performance. I recently acquired a new transceiver and have begun having problems with RFI in my headphone circuit...odly enough, only in that circuit. Apparently this particular transceiver is more sensitive to RF than others I have been using.

I've been trying to track down the source of the RF that is getting into the headphone circuit and have come up with a possible suspect... the rotor cable. When on the Hex Beam, this problem only occurs on 20 meters. The coax is choked per the manufacturer's recommendations. The SWR is low and to the best of my knowledge, the coax cable is in good condition. I can't recall the exact length of the rotor cable run, but I think it is approximately 150 feet. The rotor cable is tied to the coax for most of the run. I am using a Channel Master Rotor with a four conductor unshielded cable.

I hope to obtain a clip on RF ammeter to confirm that the rotor cable is the culprit, but until then I was wondering if anyone might have had a similar problem? I believe many of you are using the Channel Master rotators with the Hex Beam.

I can change the severity of the RFI by moving the rotor cable around and bringing it into closer proximity with coax and power supply cables at the rear of the equipment.

I attempted choking the rotor cable as it entered the shack, but it didn't seem to effect it. IF it is the rotor cable, I'm guessing the RF current is being induced by its long run next to the coax, or it is entering at the rotor end and should be dealt with there.

I would appreciate any suggestions. A few others with this transceiver are reporting a similar susceptibility but until the manufacturer acknowledges that they might have a design shortcoming, I need to work it from the source.

Thanks and 73,

Brad
AA5CH

2351. files

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-16 11:05:36 UTC
From: ki4crs
Topic: 2351 Message: 2351

can someone tell me what program you use to view the files with a .ez extention?

2352. hex beam lightning protection

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-17 09:26:20 UTC
From: x_mantenna
Topic: 2352 Message: 2352

Hi to all! First of all I'd like to thank you all for such a great web site with all of the helpful info on hex beams. I am home-brewing one and was wondering about lightning protection. Will it throw off the performance of the antenna if I run a small ground wire from just above the center support (highest point) down to a ground rod or how else should one deal with lightning protection? Thank you in advance for your advice. Randy. WV9T

2353. Re: [hex-beam] RFI via Rotor Cable?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-17 17:46:35 UTC
From: john labutski
Topic: 2350 Message: 2353

Hello Brad,

I recently moved from California to Florida. When I was in California, I always had rf problems up the kazoo. The water table was so low there it was impossible to get good grounding. When I got my first Ten-tec rig (the Jupiter) I had even worse problems. To solve the rf problem on transmit, I added a secondary ground from the input plug ground pin on the rig to a chassis ground inside the rig. This along with a couple of caps on the loudspeakers in side the earphones cured the rf in the headphone problem. Later I moved my shack to a small building outside. There I had problems on 20 meters with my Icom. The solution was to run a secondary ground with a 4 gauge wire from the shield connection on the antenna directly to a ground rod right at the base of the tower. The rf on the rotor wires sounds like a common mod problem.

Twenty meters really requires at least a half wave length above the ground to avoid problems if you are running power. Surprisingly here in Florida I can run legal limit with the antenna only up at 30 feet. Hex-beams tend to act a bit as cloud warmers as well as beams. This is kind of a unique feature because its great for round robbins with stations all over the country as well as dx. This I consider a nifty feature not available on conventional yagi's. We had sort of a mini-dxpedition when I moved out to Florida via driving. Old Claude (kd6cys) was copyable all the way from California to Florida. Even though we were just running a ham stick.

John kd6wd/4

----- Original Message -----
From: Brad Johnson
To: hex-beam@yahoogroups.com
Sent: Tuesday, March 15, 2005 3:21 PM
Subject: [hex-beam] RFI via Rotor Cable?

Hi All...

Been enjoying my 5 Band Hex Beam for a couple of years with no problems and have been very pleased with the performance. I recently acquired a new transceiver and have begun having problems with RFI in my headphone circuit...odly enough, only in that circuit. Apparently this particular transceiver is more sensitive to RF than others I have been using.

I've been trying to track down the source of the RF that is getting into the headphone circuit and have come up with a possible suspect... the rotor cable. When on the Hex Beam, this problem only occurs on 20 meters. The coax is choked per the manufacturer's recommendations. The SWR is low and to the best of my knowledge, the coax cable is in good condition. I can't recall the exact length of the rotor cable run, but I think it is approximately 150 feet. The rotor cable is tied to the coax for most of the run. I am using a

Channel Master Rotor with a four conductor unshielded cable.

I hope to obtain a clip on RF ammeter to confirm that the rotor cable is the culprit, but until then I was wondering if anyone might have had a similar problem? I believe many of you are using the Channel Master rotators with the Hex Beam.

I can change the severity of the RFI by moving the rotor cable around and bringing it into closer proximity with coax and power supply cables at the rear of the equipment.

I attempted choking the rotor cable as it entered the shack, but it didn't seem to effect it. IF it is the rotor cable, I'm guessing the RF current is being induced by its long run next to the coax, or it is entering at the rotor end and should be dealt with there.

I would appreciate any suggestions. A few others with this transceiver are reporting a similar susceptibility but until the manufacturer acknowledges that they might have a design shortcoming, I need to work it from the source.

Thanks and 73,

Brad
AA5CH

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[Non-text portions of this message have been removed]

2354. Re: [hex-beam] RFI via Rotor Cable?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-17 18:17:20 UTC
From: comsatdemexico@starband.net
Topic: 2350 Message: 2354

Hi all:
Try the RFI kit form radioworks,they made one for your rotor.

http://www.radioworks.com/

Best Regards
Comsat de Mexico
de vy 73
>
>
> Hi All...
>
> Been enjoying my 5 Band Hex Beam for a couple of years with no
> problems and have been very pleased with the performance. I recently
> acquired a new transceiver and have begun having problems with RFI in
> my headphone circuit...odly enough, only in that circuit. Apparently
> this particular transceiver is more sensitive to RF than others I have
> been using.
>
> I've been trying to track down the source of the RF that is getting
> into the headphone circuit and have come up with a possible
> suspect... the rotor cable. When on the Hex Beam, this problem only
> occurs on 20 meters. The coax is choked per the manufacturer's
> recommendations. The SWR is low and to the best of my knowledge, the
> coax cable is in good condition. I can't recall the exact length of the
> rotor cable run, but I think it is approximately 150 feet. The rotor
> cable is tied to the coax for most of the run. I am using a Channel
> Master Rotor with a four conductor unshielded cable.
>
> I hope to obtain a clip on RF ammeter to confirm that the rotor cable
> is the culprit, but until then I was wondering if anyone might have had
> a similar problem? I believe many of you are using the Channel Master
> rotators with the Hex Beam.
>
> I can change the severity of the RFI by moving the rotor cable around
> and bringing it into closer proximity with coax and power supply
> cables at the rear of the equipment.
>
> I attempted choking the rotor cable as it entered the shack, but it
> didn't seem to effect it. IF it is the rotor cable, I'm guessing the RF
> current is being induced by its long run next to the coax, or it is
> entering at the rotor end and should be dealt with there.
>
> I would appreciate any suggestions. A few others with this
> transceiver are reporting a similar susceptibility but until the

> manufacturer acknowledges that they might have a design shortcoming, I
> need to work it from the source.
>
> Thanks and 73,
>
> Brad
> AA5CH
>
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> Yahoo! Groups Links
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2355. Re: [hex-beam] files

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-18 00:26:47 UTC
From: SP8RHP
Topic: 2351 Message: 2355

Hi..

> can someone tell me what program you use to view the files with a .ez
> extention?
With EZNEC soft.
--
Pozdrowienia,
SP8RHP

2356. Re: [hex-beam] hex beam lightning protection

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-17 18:04:57 UTC
From: comsatdemexico@starband.net
Topic: 2352 Message: 2356

Hi Randy:
I use a Polyphaser Coaxial Impulse Suppressors or Lightning
Protectors in all my coax and rotor connections.
Will be a good idea that you buy those little gems to protect your
equipment investment.

http://xxx.surplussales.com/Antennas/polyphsr.html

Replace the XXX for WWW. I don't think is a good idea direct links,just
easy way for hacking.

Best Regards
Comsat de Mexico
de vy 73

> Hi to all! First of all I'd like to thank you all for such a great web
> site with all of the helpful info on hex beams. I am home-brewing one
> and was wondering about lightning protection. Will it throw off the
> performance of the antenna if I run a small ground wire from just above
> the center support (highest point) down to a ground rod or how else
> should one deal with lightning protection? Thank you in advance for
> your advice. Randy. WV9T
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> Yahoo! Groups Links
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2357. Re: [hex-beam] RFI via Rotor Cable?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-17 18:21:09 UTC
From: Dale Parfitt
Topic: 2350 Message: 2357

----- Original Message -----
From: john labutski
To: hex-beam@yahoogroups.com
Sent: Thursday, March 17, 2005 12:46 PM
Subject: Re: [hex-beam] RFI via Rotor Cable?

Hello Brad,

I recently moved from California to Florida. When I was in California, I always had rf problems up the kazoo. The water table was so low there it was impossible to get good grounding. When I got my first Ten-tec rig (the Jupiter) I had even worse problems. To solve the rf problem on transmit, I added a secondary ground from the input plug ground pin on the rig to a chassis ground inside the rig. This along with a couple of caps on the loudspeakers in side the earphones cured the rf in the headphone problem. Later I moved my shack to a small building outside. There I had problems on 20 meters with my Icom. The solution was to run a secondary ground with a 4 gauge wire from the shield connection on the antenna directly to a ground rod right at the base of the tower. The rf on the rotor wires sounds like a common mod problem.

Twenty meters really requires at least a half wave length above the ground to avoid problems if you are running power. Surprisingly here in Florida I can run legal limit with the antenna only up at 30 feet. Hex-beams tend to act a bit as cloud warmers as well as beams. This is kind of a unique feature because its great for round robbins with stations all over the country as well as dx. This I consider a nifty feature not available on conventional yagi's.

I don't understand why the takeoff angle of a Hexbeam would be any different than a yagi or quad with their current loops at the same height as the Hexbeam. My understanding is that the far field takeoff angle is a funciton of classic ray reflection theory- regardless of the emitter.
Can someone inform me or send me some NEC models?

Tnx,

Dale W4OP

[Non-text portions of this message have been removed]

2358. Re: [hex-beam] hex beam lightning protection

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-18 03:47:43 UTC
From: Randall Stojan
Topic: 2352 Message: 2358

Thank you for the lightning tips and website link. Greatly appreciated! Randy. WV9T
----- Original Message -----
From: comsatdemexico@...
To: hex-beam@yahoogroups.com
Sent: Thursday, March 17, 2005 12:04 PM
Subject: Re: [hex-beam] hex beam lightning protection

Hi Randy:
I use a Polyphaser Coaxial Impulse Suppressors or Lightning
Protectors in all my coax and rotor connections.
Will be a good idea that you buy those little gems to protect your
equipment investment.

http://xxx.surplussales.com/Antennas/polyphsr.html

Replace the XXX for WWW. I don't think is a good idea direct links,just
easy way for hacking.

Best Regards
Comsat de Mexico
de vy 73

> Hi to all! First of all I'd like to thank you all for such a great web
> site with all of the helpful info on hex beams. I am home-brewing one
> and was wondering about lightning protection. Will it throw off the
> performance of the antenna if I run a small ground wire from just above
> the center support (highest point) down to a ground rod or how else
> should one deal with lightning protection? Thank you in advance for
> your advice. Randy. WV9T
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[Non-text portions of this message have been removed]

2359. Photos Uploaded

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-19 09:01:37 UTC
From: David Douglass
Topic: 2359 Message: 2359

Just uploaded a couple more pictures to my folder on the Yahoo Site, showing progress to date on Hex-Beam #3.

I now have all the parts and just need to attach the element to spreader connectors to all of the elements and align them so that the elements are taught and as horizontal as possible.

All elements are cut to size and ready for installation.

Total cost will come to about $400AUS, with the bulk of this having to get fibreglass poles from Cubex in the US, and wire for the Wireman in the US. I've also spent about $70 on hose/compression clamps.

Barry, I notice that the photo section is filling up, so if you would like to delete my old folder/photo's (VK2DPD), for my previous 2 Hex-Beams, go ahead. I would do it myself, but can't remember my all log in details prior to changing my call.

Regards all

David, VK2NU (ex VK2DPD, M0DPD)

2360. Re: Photos Uploaded

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-19 19:01:39 UTC
From: w4wb
Topic: 2359 Message: 2360

Hi David,

I removed your old folder as you requested. Guess I need to go in and clean out some more. Maybe some of the members will take a look at their photo folder and delete aged or unneeded photos so that others can have a bit of space. 30 MB is all Yahoo! allows.

#3 HB is looking good. I have one question however. When looking down into the center support, I noticed that you have your ferrite beads just below the SO-239. Seems that this isn't a good place to locate due to potential saturation of the ferrites. When I have played with placement, just below the hub did the trick. I know you have done a lot of experimentation, so I would value your comments on this.

BTW, is the rotor other than the "armstrong" model for this version? :-)

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "David Douglass" <vk2nu@b...> wrote:
> Just uploaded a couple more pictures to my folder on the Yahoo Site, showing
> progress to date on Hex-Beam #3.
>
> I now have all the parts and just need to attach the element to spreader
> connectors to all of the elements and align them so that the elements are
> taught and as horizontal as possible.
>
> All elements are cut to size and ready for installation.
>
> Total cost will come to about $400AUS, with the bulk of this having to get
> fibreglass poles from Cubex in the US, and wire for the Wireman in the US.
> I've also spent about $70 on hose/compression clamps.
>
> Barry, I notice that the photo section is filling up, so if you would like
> to delete my old folder/photo's (VK2DPD), for my previous 2 Hex-Beams, go
> ahead. I would do it myself, but can't remember my all log in details prior

> to changing my call.
>
> Regards all
>
> David, VK2NU (ex VK2DPD, M0DPD)

2361. Email addy

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-19 19:16:39 UTC
From: kd1ia
Topic: 2361 Message: 2361

Hi All, Im looking into ordering a Hexbeam from Mike Traffe. Does he have an Email address? The web site only lists phone numbers. I would like to ask him a few $$ es spec questions about a posable custom hex. tnx for any help

de John Ko1h

No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.308 / Virus Database: 266.7.3 - Release Date: 3/15/2005

[Non-text portions of this message have been removed]

2362. Re: [hex-beam] Email addy

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-19 21:40:58 UTC
From: Bill Metzger
Topic: 2361 Message: 2362

Traffie does not have an Email address. You need to call him directly. He is extremely helpful.

Bill
KF0OH
----- Original Message -----
From: kd1ia
To: hex-beam@yahoogroups.com
Sent: Saturday, March 19, 2005 1:16 PM
Subject: [hex-beam] Email addy

Hi All, Im looking into ordering a Hexbeam from Mike Traffe. Does he have an Email address? The web site only lists phone numbers. I would like to ask him a few $$ es spec questions about a posable custom hex. tnx for any help

de John Ko1h

No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.308 / Virus Database: 266.7.3 - Release Date: 3/15/2005

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

2363. Re:Photos Uploaded

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-20 00:23:34 UTC
From: David Douglass
Topic: 2359 Message: 2363

Hi Barry,

Thanks for getting rid of the old pictures.

Regarding the ferrites, I do have these directly at the feedpoint of the antenna, and this seemed like a good idea at the time. I have always used this method with my wire beams, and used ferrites directly at all feedpoints on my Hex#2 (5 band individual feeds). On my Hex#1 I used a coax coil/choke at the feedpoint and had no issues, but maybe that is because I only used low power (100w max) ??

I suppose I'll have to give it a whirl and see if I have any problems, but would be interested to know if anyone else has tried this and had any issues?? I know conventional antenna wisdom states that you should install them at (or a close as possible to) the feedpoint, and I always stuck to this. Once I have it up and running I'll make further comment, but it would be easy to remove the ferrites at a later stage, and install further down the feeder.

On the rotator, I've gone to the expense of buying an old CDE AR22XL, which I've restored for the job, so I'm hoping this is heavy duty enough? This is my first ever rotator, so looking forward to being able to turn the beam from my chair !!

I'm hoping this all goes OK, as this would be the most I've ever sent on an antenna, although having to get most of the parts from overseas didn't help. It cost just about as much to ship the spreaders from the US, as it did to buy them, but it was still cheaper than sourcing these in Australia. Likewise, decent antenna wire is impossible to find down here.

All the best

David, VK2NU

> Hi David,
>
> I removed your old folder as you requested. Guess I need to go in
> and clean out some more. Maybe some of the members will take a look
> at their photo folder and delete aged or unneeded photos so that
> others can have a bit of space. 30 MB is all Yahoo! allows.
>
> #3 HB is looking good. I have one question however. When looking
> down into the center support, I noticed that you have your ferrite
> beads just below the SO-239. Seems that this isn't a good place to
> locate due to potential saturation of the ferrites. When I have
> played with placement, just below the hub did the trick. I know you
> have done a lot of experimentation, so I would value your comments on

> this.
>
> BTW, is the rotor other than the "armstrong" model for this
> version? :-)
>
> 73,
> Barry W4WB
>
>
> --- In hex-beam@yahoogroups.com, "David Douglass" <vk2nu@b...> wrote:
> > Just uploaded a couple more pictures to my folder on the Yahoo
> Site, showing
> > progress to date on Hex-Beam #3.
> >
> > I now have all the parts and just need to attach the element to
> spreader
> > connectors to all of the elements and align them so that the
> elements are
> > taught and as horizontal as possible.
> >
> > All elements are cut to size and ready for installation.
> >
> > Total cost will come to about $400AUS, with the bulk of this having
> to get
> > fibreglass poles from Cubex in the US, and wire for the Wireman in
> the US.
> > I've also spent about $70 on hose/compression clamps.
> >
> > Barry, I notice that the photo section is filling up, so if you
> would like
> > to delete my old folder/photo's (VK2DPD), for my previous 2 Hex-
> Beams, go
> > ahead. I would do it myself, but can't remember my all log in
> details prior
> > to changing my call.
> >
> > Regards all
> >
> > David, VK2NU (ex VK2DPD, M0DPD)

2364. Re:Photos Uploaded

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-20 16:04:19 UTC
From: w4wb
Topic: 2359 Message: 2364

Hi David,

Thanks for the clarifications. Am sure you will enjoy having the rotor!

I will be interested in your results with the beads. Just think about where the high currents/fields are located.

You certainly make a case for why we that live in the USA should be grateful to have such easy access to and relatively low costs for materials to build antennas and such. It is too easy to forget this. I have been out of the USA where it was very difficult to located anything and it took weeks to order and receive parts.

Worked FT5XO yet? No joy here yet, but maybe tonight on 20 m.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "David Douglass" <vk2nu@b...> wrote:
> Hi Barry,
>
> Thanks for getting rid of the old pictures.
>
> Regarding the ferrites, I do have these directly at the feedpoint of the
> antenna, and this seemed like a good idea at the time. I have always used
> this method with my wire beams, and used ferrites directly at all feedpoints
> on my Hex#2 (5 band individual feeds). On my Hex#1 I used a coax coil/choke
> at the feedpoint and had no issues, but maybe that is because I only used
> low power (100w max) ??
>
> I suppose I'll have to give it a whirl and see if I have any problems, but
> would be interested to know if anyone else has tried this and had any
> issues?? I know conventional antenna wisdom states that you should install
> them at (or a close as possible to) the feedpoint, and I always stuck to
> this. Once I have it up and running I'll make further comment, but it would

> be easy to remove the ferrites at a later stage, and install
further down
> the feeder.
>
> On the rotator, I've gone to the expense of buying an old CDE
AR22XL, which
> I've restored for the job, so I'm hoping this is heavy duty enough?
This is
> my first ever rotator, so looking forward to being able to turn the
beam
> from my chair !!
>
> I'm hoping this all goes OK, as this would be the most I've ever
sent on an
> antenna, although having to get most of the parts from overseas
didn't help.
> It cost just about as much to ship the spreaders from the US, as it
did to
> buy them, but it was still cheaper than sourcing these in Australia.
> Likewise, decent antenna wire is impossible to find down here.
>
> All the best
>
> David, VK2NU
>

2365. Making a homeBrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-21 17:22:12 UTC
From: NEED2CYCLE
Topic: 2365 Message: 2365

Can somebody help? I want to biuld my own Hex Beam. I was somebody
out there has a set of plans I can use.
Thanks in advace.

Bill

2366. Re: Making a homeBrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-21 19:55:16 UTC
From: John
Topic: 2365 Message: 2366

Hello Bill,
For a good help to build a HEXbeam look at the file-
section of this group or at my photoalbum at:

http://pg.photos.yahoo.com/ph/johndeilander/my_photos

Succes and good luck by building this marvelous antenna.

--- In hex-beam@yahoogroups.com, "NEED2CYCLE" <need2cycle@y...>
wrote:
>
>
> Can somebody help? I want to biuld my own Hex Beam. I was somebody
> out there has a set of plans I can use.
> Thanks in advace.
>
>
> Bill

2367. Homebrewing a Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-21 23:21:18 UTC
From: W1GQL
Topic: 2367 Message: 2367

I encourage anyone interested in building a hex beam to check out my web site at http://www.midcoast.com/~w1gql/hex.htm

My hex design varies from the traditional in a couple significant ways that make construction easier but do not negatively affect performance. I do not make the wires in the elements a structural part of the antenna, but rather suspend them in a framework. I also use a solid wooden rod for the center post and feed the the elements with separate coax lines. Check out the webpage and please let me know you have been there and what you think.

The antenna has help up wonderfully through a rough Maine winter and allowed me to work the world, hearing things I never heard before in 50 years of hamming.

Dave W1GQL

2368. QUESTIONS was: [hex-beam] Digest Number 668

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-22 01:18:29 UTC
From: RFImages
Topic: 2368 Message: 2368

Why do the elements on a HEX Beam need to be bowed?

Why can't you just lay them out flat on the spearders?

Has anyone ever mounted a HEX Beam Vertical? It seem like
a vertical mounting would work exceptionally well, like a
vertical dipole.

Also, it seems to me that a 17 through 10 meter HEX Beam
would be a very manageable size.

Has anyone ever experimented with a sigle element HEX Beam?

Bill

--- hex-beam@yahoogroups.com wrote:
>
> There are 2 messages in this issue.
>
> Topics in this digest:
>
> 1. Making a homeBrew Hex Beam
> From: "NEED2CYCLE" <need2cycle@...>
> 2. Re: Making a homeBrew Hex Beam
> From: "John" <johndeilander@...>
>
>
>

>

>
> Message: 1
> Date: Mon, 21 Mar 2005 17:22:12 -0000
> From: "NEED2CYCLE" <need2cycle@...>
> Subject: Making a homeBrew Hex Beam
>
>
>
> Can somebody help? I want to biuld my own Hex Beam. I was
> somebody
> out there has a set of plans I can use.
> Thanks in advace.
>
>
> Bill

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> Message: 2
> Date: Mon, 21 Mar 2005 19:55:16 -0000
> From: "John" <johndeilander@...>
> Subject: Re: Making a homeBrew Hex Beam
>
>
> Hello Bill,
> For a good help to build a HEXbeam look at the
> file-
> section of this group or at my photoalbum at:
>
> http://pg.photos.yahoo.com/ph/johndeilander/my_photos
>
> Succes and good luck by building this marvelous antenna.
>
>
>
> --- In hex-beam@yahoogroups.com, "NEED2CYCLE"
> <need2cycle@y...>
> wrote:
> >
> >
> > Can somebody help? I want to biuld my own Hex Beam. I
> was somebody
> > out there has a set of plans I can use.
> > Thanks in advace.
> >
> >
> > Bill
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> Yahoo! Groups Links
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http://mail.yahoo.com

2369. Re: QUESTIONS was: [hex-beam] Digest Number 668

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-22 07:12:26 UTC
From: gerry_schjelderup
Topic: 2368 Message: 2369

--- In hex-beam@yahoogroups.com, RFImages <rfimages@y...> wrote:
>
> Why do the elements on a HEX Beam need to be bowed?
>
> Why can't you just lay them out flat on the spearders?
>
> Has anyone ever mounted a HEX Beam Vertical? It seem like
> a vertical mounting would work exceptionally well, like a
> vertical dipole.
>
> Also, it seems to me that a 17 through 10 meter HEX Beam
> would be a very manageable size.
>
> Has anyone ever experimented with a sigle element HEX Beam?
>
>
>
> Bill

Bill,
I would guess if it was your wish to have a one band beam, spreaders could be horizontal, but if you want multibands, curving the spreaders places the elements on a different plane, since their lengths vary, and thus prevents their presence from interfering with performance on adjacent bands. If you only want a single band antenna you give up the big advantage of choosing a hex beam.Try one, You'll like it!
Gerry KC0MSX

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> --- hex-beam@yahoogroups.com wrote:
> >
> > There are 2 messages in this issue.
> >
> > Topics in this digest:
> >
> > 1. Making a homeBrew Hex Beam
> > From: "NEED2CYCLE" <need2cycle@y...>
> > 2. Re: Making a homeBrew Hex Beam

> > From: "John" <johndeilander@y...>
> >
> >
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> >
> > Message: 1
> > Date: Mon, 21 Mar 2005 17:22:12 -0000
> > From: "NEED2CYCLE" <need2cycle@y...>
> > Subject: Making a homeBrew Hex Beam
> >
> >
> >
> > Can somebody help? I want to biuld my own Hex Beam. I was
> > somebody
> > out there has a set of plans I can use.
> > Thanks in advace.
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> > Bill
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> >
> > Message: 2
> > Date: Mon, 21 Mar 2005 19:55:16 -0000
> > From: "John" <johndeilander@y...>
> > Subject: Re: Making a homeBrew Hex Beam
> >
> >
> > Hello Bill,

> > For a good help to build a HEXbeam look at the
> > file-
> > section of this group or at my photoalbum at:
> >
> > http://pg.photos.yahoo.com/ph/johndeilander/my_photos
> >
> > Succes and good luck by building this marvelous antenna.
> >
> >
> >
> > --- In hex-beam@yahoogroups.com, "NEED2CYCLE"
> > <need2cycle@y...>
> > wrote:
> > >
> > >
> > > Can somebody help? I want to biuld my own Hex Beam. I
> > was somebody
> > > out there has a set of plans I can use.
> > > Thanks in advace.
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> > Yahoo! Groups Links
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> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

2370. Re: QUESTIONS was: [hex-beam] Digest Number 668

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-22 09:48:56 UTC
From: BILL CODY
Topic: 2368 Message: 2370

THANKS!

gerry_schjelderup <KC0MSX@...> wrote:
--- In hex-beam@yahoogroups.com, RFImages <rfimages@y...> wrote:
>
> Why do the elements on a HEX Beam need to be bowed?
>
> Why can't you just lay them out flat on the spearders?
>
> Has anyone ever mounted a HEX Beam Vertical? It seem like
> a vertical mounting would work exceptionally well, like a
> vertical dipole.
>
> Also, it seems to me that a 17 through 10 meter HEX Beam
> would be a very manageable size.
>
> Has anyone ever experimented with a sigle element HEX Beam?
>
>
>
> Bill

Bill,
I would guess if it was your wish to have a one band beam, spreaders could be horizontal, but if you want multibands, curving the spreaders places the elements on a different plane, since their lengths vary, and thus prevents their presence from interfering with performance on adjacent bands. If you only want a single band antenna you give up the big advantage of choosing a hex beam.Try one, You'll like it!
Gerry KC0MSX

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> --- hex-beam@yahoogroups.com wrote:
> >
> > There are 2 messages in this issue.
> >
> > Topics in this digest:
> >
> > 1. Making a homeBrew Hex Beam

> > From: "NEED2CYCLE" <need2cycle@y...>
> > 2. Re: Making a homeBrew Hex Beam
> > From: "John" <johndeilander@y...>
> >
> >
> >
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> >
> > Message: 1
> > Date: Mon, 21 Mar 2005 17:22:12 -0000
> > From: "NEED2CYCLE" <need2cycle@y...>
> > Subject: Making a homeBrew Hex Beam
> >
> >
> >
> > Can somebody help? I want to biuld my own Hex Beam. I was
> > somebody
> > out there has a set of plans I can use.
> > Thanks in advace.
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> > Bill
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> >
> > Message: 2
> > Date: Mon, 21 Mar 2005 19:55:16 -0000
> > From: "John" <johndeilander@y...>
> > Subject: Re: Making a homeBrew Hex Beam
> >

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> >
> > Hello Bill,
> > For a good help to build a HEXbeam look at the
> > file-
> > section of this group or at my photoalbum at:
> >
> > http://pg.photos.yahoo.com/ph/johndeilander/my_photos
> >
> > Succes and good luck by building this marvelous antenna.
> >
> >
> >
> > --- In hex-beam@yahoogroups.com, "NEED2CYCLE"
> > <need2cycle@y...>
> > wrote:
> > >
> > >
> > > Can somebody help? I want to biuld my own Hex Beam. I
> > was somebody
> > > out there has a set of plans I can use.
> > > Thanks in advace.
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> > > Bill
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> > Yahoo! Groups Links
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Yahoo! Groups Links

To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

2371. Re: [hex-beam] Homebrewing a Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-22 14:20:52 UTC
From: John Webster
Topic: 2367 Message: 2371

Dave:

This is great. I've been thinking of how to do a 40m version and will use this as a base. I'm assuming the dimensions of your 20m version can be scaled by a factor of 2 to get the correct 40m dimensions (?)

John, K1FWE
----- Original Message -----
From: "W1GQL" <w1gql@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, March 21, 2005 6:21 PM
Subject: [hex-beam] Homebrewing a Hex

>
>
> I encourage anyone interested in building a hex beam to check out my
> web site at http://www.midcoast.com/~w1gql/hex.htm
>
> My hex design varies from the traditional in a couple significant ways
> that make construction easier but do not negatively affect performance.
> I do not make the wires in the elements a structural part of the
> antenna, but rather suspend them in a framework. I also use a
> solid wooden rod for the center post and feed the the elements with
> separate coax lines. Check out the webpage and please let me know
> you have been there and what you think.
>
> The antenna has help up wonderfully through a rough Maine winter and
> allowed me to work the world, hearing things I never heard before in
> 50 years of hamming.
>
> Dave W1GQL
>
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> Yahoo! Groups Links
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2372. Re: Making a homeBrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-22 21:42:06 UTC
From: dl7io
Topic: 2365 Message: 2372

Hello Bill and a few others as well,
of course can we help! And we will if you have any problem, like we did for Paulo, who's beam is playing well now.

But please: if you are serious interested, you should first read the posting on this forum. This would give you a lot of helpful information and links you need. And probably you will find answers on most of the questions you have in the beginning.

You will find links and information for mono- or multiband designs in all variations you may wish to build, simply by reading the postings.

It is only a little work compared to developing or designing an antenna and I guess it is the minimum we can expect from everybody here.

Sorry if I have been to direct.
Regards Holger
>
>
> Can somebody help? I want to biuld my own Hex Beam. I was somebody
> out there has a set of plans I can use.
> Thanks in advace.
>
>
> Bill

2373. Paulo's Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-23 00:55:40 UTC
From: t_ashland
Topic: 2365 Message: 2373

I missed the post about Paulo's Hex working now. Glad to hear
Paulo's hex is up and working. You are a great group of guys!
73,
Terry, WK0F

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
>
> Hello Bill and a few others as well,
> of course can we help! And we will if you have any problem, like we
> did for Paulo, who's beam is playing well now.
>
> But please: if you are serious interested, you should first read
the
> posting on this forum. This would give you a lot of helpful
> information and links you need. And probably you will find answers
on
> most of the questions you have in the beginning.
>
> You will find links and information for mono- or multiband designs
in
> all variations you may wish to build, simply by reading the
postings.
>
> It is only a little work compared to developing or designing an
> antenna and I guess it is the minimum we can expect from everybody
> here.
>
> Sorry if I have been to direct.
> Regards Holger
> >
> >
> > Can somebody help? I want to biuld my own Hex Beam. I was
somebody
> > out there has a set of plans I can use.
> > Thanks in advace.
> >
> >
> > Bill

2374. I WANT TO EXPRESS MY TKS TO YOU EXC. HAM AND FRIENDS

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-23 21:58:18 UTC
From: Paulo
Topic: 2374 Message: 2374

Open Letter to all readers..

I want to thank to the excelent radio hams that in moments when i fell i wanted to quit of the HEXBEAM assemble, i felt weak and wanted to give up..they gave me strengh to go on...and i made it!!!
These SPECIAL Radiohams are :
W6HB DOUG;
W4WB BARRY;
DL7IO HOLGER;
OTHERS..
I AM VERY PROUD TO BE PART OF THIS FAMILY.....
These Hams they help me from their heart..they did not rest untill my problems were solve from the shockof toroids....to the PL.coax cable...everything... they check and check...check again to HELP ME....
THEY DID NOT ASK ANYTHING IN RETURN....THIS IS RADIOHAM SPIRIT AND REAL FRIENDSHIP!!!!!!THANK YOU FROM THE BOTTOM OF MY HEART...NOW I AM READY TO HELP TO :-)))?????

BUT NOT ALL WERE FLOWERS, UNFORTUNELY.....

I feel sorry for the lack of help from the manufacturer..
I am sorry MIke but you were not helpfull...as you should be.....
may be in future you can change your policy and think a bit more of your clients has people who need your attention..not only USD are important....

CT1ITZ
Paulo
PS: I will post now the photos of my station.....:-)

2375. Looking for DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-23 22:39:14 UTC
From: ve3xj
Topic: 2375 Message: 2375

A couple of weeks ago I sent and e-mail to DL7IO enquiring about prices for homebrewing my own hex beam. Not having received a reply, I sent another e-mail requesting a reply last weekend. Still nothing. Perhaps I did not send it to the correct e-mail address, so can I hope he will read this and let me know if he got my messages.

73

Jim, VE3XJ

2376. I CAN POST MY PHOTOS THERE IS A ERROR MESSAGE

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-24 00:36:41 UTC
From: Paulo
Topic: 2376 Message: 2376

CAN SOMEBODY TELL ME IF THE ERROR IS NORMAL??
I WOULD LIKE TO SHARE IT WITH YOU MY FRIENDS..BUT ALWAYS ERROR....

TKS
PAULO
CT1ITZ

2377. Re: I CAN POST MY PHOTOS THERE IS A ERROR MESSAGE

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-24 03:52:14 UTC
From: w4wb
Topic: 2376 Message: 2377

Paulo,

Your Photo folder is empty. THere is aome space available to upload your photos. Please BE SURE to adjust the file size to as small as you can to minimize utilized space in the Photo section.

Remember that you have to be logged into the Hex-Beam Group web site before you can upload the photos.

Installation looks fine now.

GL es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
>
> CAN SOMEBODY TELL ME IF THE ERROR IS NORMAL??
> I WOULD LIKE TO SHARE IT WITH YOU MY FRIENDS..BUT ALWAYS ERROR....
>
> TKS
> PAULO
> CT1ITZ

2378. MY PICTURES ARE AVAILABLE..ONLY 4..

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-24 09:15:41 UTC
From: Paulo
Topic: 2378 Message: 2378

Hi My friends..hope you like the pictures i uploded..

Wishing all a Happy Easter

Paulo

2379. Re: [hex-beam] MY PICTURES ARE AVAILABLE..ONLY 4..

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-24 14:30:39 UTC
From: Mike/k1eg
Topic: 2378 Message: 2379

Hi Paulo Happy Easter to you and yours as well. I hope your enjoying your
Hex Beam now that it's working correctly.

Ciao
Mike

----- Original Message -----
From: "Paulo" <paulo.paixao@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, March 24, 2005 3:15 AM
Subject: [hex-beam] MY PICTURES ARE AVAILABLE..ONLY 4..

>
>
>
> Hi My friends..hope you like the pictures i uploded..
>
> Wishing all a Happy Easter
>
> Paulo
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> Yahoo! Groups Links
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2380. Poll results for hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-24 15:57:25 UTC
From: hex-beam@yahoogroups.com
Topic: 2380 Message: 2380

The following hex-beam poll is now closed. Here are the
final results:

POLL QUESTION: What are the reasons you bought,
homebrewed or are generally intetested
in the hex-beam? Please select
all that apply.

CHOICES AND RESULTS
- Wanted beam antenna with gain on 17, 34 votes, 5.48%
- Wanted beam antenna with gain on 15, 34 votes, 5.48%
- Wanted beam antenna with gain on 12, 30 votes, 4.84%
- Wanted beam antenna with gain on 10, 34 votes, 5.48%
- Wanted beam antenna with gain on 6, 6 votes, 0.97%
- Didn't want to put up a tower, 22 votes, 3.55%
- Low visability, 25 votes, 4.03%
- No traps, 39 votes, 6.29%
- Broadbanded, 27 votes, 4.35%
- Low maintenance, 31 votes, 5.00%
- Cost per band, 16 votes, 2.58%
- Quality of construction, 20 votes, 3.23%
- Suitable for portable opertions, 10 votes, 1.61%
- Received as a gift, 0 votes, 0.00%
- Single feedline, 38 votes, 6.13%
- Reputation, 16 votes, 2.58%
- Referral, 3 votes, 0.48%
- Other - share as post if willing, 0 votes, 0.00%
- Small footprint, 41 votes, 6.61%
- Light weight, 48 votes, 7.74%
- Low wind load, 45 votes, 7.26%
- Requires light duty rotator due to symetrical shape and light weight, 32 votes, 5.16%
- No tuning required, 27 votes, 4.35%
- Wanted beam antenna with gain on 40, 9 votes, 1.45%
- Wanted beam antenna with gain on 20, 33 votes, 5.32%

For more information about this group, please visit
http://groups.yahoo.com/group/hex-beam

For help with Yahoo! Groups, please visit
http://help.yahoo.com/help/us/groups/

2381. Poll results for hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-24 15:58:05 UTC
From: hex-beam@yahoogroups.com
Topic: 2380 Message: 2381

The following hex-beam poll is now closed. Here are the final results:

POLL QUESTION: Given the reason(s) you initially purchased or homebrewed your hex-beam and based on your personal experience and or knowledge of other antennas, would you purchase or homebrew the hex-beam today if you were making that decision again?

CHOICES AND RESULTS
- Yes, 35 votes, 97.22%
- No, 1 votes, 2.78%

For more information about this group, please visit http://groups.yahoo.com/group/hex-beam

For help with Yahoo! Groups, please visit http://help.yahoo.com/help/us/groups/

2382. Photo Upload

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-25 08:20:10 UTC
From: vk2nu
Topic: 2382 Message: 2382

Hi All,

Have just uploaded a couple more pictures to my folder, this time detailing the element to spreader attachment.

For this I've used 2 inter-laced hose clamps. The first is attached to the spreader and the second holds a short length of fibreglass tubing (tent poles cut to 4cm in length). To protect the fibreglass from the hose clamp, I have a short length of plastic hose around it.

This allows the elements to travel through the attachment point as the the attenna moves in the wind.

As you'll see from the pictures Im using traditional end insulators for the elements. I would have prefered an arrangement similar to the Traffie Hex, but couldn't think of how to come up with this, and didn't want to use the plastic electric screw terminals that are shown in Holgers building instructions, as I didn't think this looked all that strong !

If the weather holds out over the Easter weekend I'll assemble in the garden and do some initial tests at low level before placing on the roof.

Hope you guys in the US are hearing FT5XO OK ??

Regards

David, VK2NU

2383. Re: [hex-beam] Re: Making a homeBrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-26 04:23:32 UTC
From: BILL CODY
Topic: 2365 Message: 2383

THANKS FOR YOUR HELP.
dIRECT WORKS REAL GOOD FOR ME
BE WELL

dl7io <dl7io@...> wrote:

Hello Bill and a few others as well,
of course can we help! And we will if you have any problem, like we
did for Paulo, who's beam is playing well now.

But please: if you are serious interested, you should first read the
posting on this forum. This would give you a lot of helpful
information and links you need. And probably you will find answers on
most of the questions you have in the beginning.

You will find links and information for mono- or multiband designs in
all variations you may wish to build, simply by reading the postings.

It is only a little work compared to developing or designing an
antenna and I guess it is the minimum we can expect from everybody
here.

Sorry if I have been to direct.
Regards Holger
>
>
> Can somebody help? I want to biuld my own Hex Beam. I was somebody
> out there has a set of plans I can use.
> Thanks in advace.
>
>
> Bill

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_____
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[Non-text portions of this message have been removed]

2384. Re: Making a homeBrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-27 03:11:39 UTC
From: k5jxl
Topic: 2365 Message: 2384

Hello Holger,
Glad that Paulo has his beam working now,
I thought that I had been following the progress.
Guess I also missed . the solution,
Would someone detail what was the problem that was corrected by Paulo,
Many thank
73 Ken

2385. hex beam spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-27 14:46:39 UTC
From: gerry nunan
Topic: 2385 Message: 2385

Hi ....

I am new to the group and am enjoying this hexbeam adventure a lot ....

I was wondering if anyone has any experience using fishing poles which might contain graphite ...they seem to be fiberglas, but they do have graphite stamped on them..... otherwise, theyre perfect .... 10 ft long, great flex ... also they're blanks (no eyes or stuff on them) .. i have 10 of them ....

does anyone have an idea about this

tnx and 73's .... gerry .. KE5DWN .. near San Anton, TX

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[Non-text portions of this message have been removed]

2386. Very happy with my HEX performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-28 00:04:06 UTC
From: Paulo
Topic: 2386 Message: 2386

Hi Guys i want to tell you how i am with my Hexbeam performance..i can listen much better than a rotary dipole..i was very ceptical concerning this antenna...but now i will not change it for another..its small and works well speacial on DX..
The heigh is 18 meters..the manufacturer says 12 meters..but i do not want my Hex beam to local QSOs..this weekend i work everything..Laos..Taiwan..S.America..so i do not understand why he says to put it 12 meters..if you are a dxer like me ..put it higher as possible..and you will see ..everybody i listen i work..

I will try to put some new pictures of my hex and rotary dipole..there is no interaction between them ..i put it 90º from the hex direction and no SWR..nothing...by the way the SWR ..check well goes from 1.1 20 meters to 1.4-1.5 on 10 meters....

I am very happy with the performance of Hexbeam..very happy..it is much different from the rotary dipole..you were right my friends.we can not compare it..now on 40 meters i look sad because i have to fight hard on pile ups..i wish i have Known Holger before ;-))) But life goes on..
Many Hams that were here in Easter weekend (my area is the most touristical part of Portugal) stoped to take pictures..i talk to them but they joke with my antenna they say it looks a bunch of wires to put the clothes.drying.i do not mind.i told them lets go dxing and you will my beauty working....i can fight on the pile ups with them...

My satisfaction is excellent special for DX.....

Thank you for your support..Doug, Barry, Holger..Diehl..and others...
My best 73´s
Paulo
CT1ITZ

PS: Lets Hope for a 10-40 meters HExbeam ;-))

By the nice look of our page..congratulations....

2387. Re: Making a homeBrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-28 00:41:58 UTC
From: Paulo
Topic: 2365 Message: 2387

--- In hex-beam@yahoogroups.com, "k5jxl" <k5jxl@y...> wrote:
> Hi Ken...
1) I change and bought a very expensive Low loss cable...
2) Bought Anphenol Pls brand new.....

This was my first and biggest positive (change all old stuff for brand new) change
3) I move the cable down to the right position between the wire and red connection..near the sticker that(side that has the H) says Hexbeam..
4) Put the shock as advised.Toroids from AMIDON..the right ones;

5) The cable has to go out of SO (do not know the name..where the PL goes in")put it up with a turn UP facing the beam direction and be very carefull going down with coax through the feedline....

6) Also my problem is that she was near metalic stuff...she has to be as far as you can from metallic or glass..or other material...

7) Make sure the wires numbers from the bands are well fsten and in the right order..

Than just put it high in the sky and go for it..

I am not an expert..ok i am just telling what my friends told me to do and it works..it is good to have a Hexfamily..i felt that..when i was falling in to the deep waters..they grab me and help me.....

I put some photos of my instalation ..so if you want you can see..

If anybody wants to send me e mails..or talk to me pls fell free to to so..but i repeat i am not an expert..but pass through bad moments..and learn with those bad times and mistakes...

I wish there were an European company that could produce Hexbeams (NO COMMENTS)
>
> Hello Holger,
> Glad that Paulo has his beam working now,
> I thought that I had been following the progress.
> Guess I also missed . the solution,
> Would someone detail what was the problem that was corrected by Paulo,
> Many thank
> 73 Ken

2388. Re: [hex-beam] Re: Making a homeBrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-28 02:33:08 UTC
From: Ken Burchfield
Topic: 2365 Message: 2388

Thanks Paulo for the reply,
Great that you now have the hexbeam playing the way it
should.
I have seen the pictures the beam looks good.
I was interested in the details of the cure, just for
my information.
Thanks and good DXing.
73 Ken
>

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http://mail.yahoo.com

2389. new photo - - NF1A hex beam in snow

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-29 06:06:42 UTC
From: aep002
Topic: 2389 Message: 2389

Check out the new photo I posted : SNOW (NF1A)

It shows my hex beam highlighted by fresh snow. Without the snow it would otherwise be invisible because of my camo paint. I think the moderator removed that picture a while ago because there was no Hex Beam to be seen. This new photo should be a keeper.

73,

Art NF1A

2390. Need wire element dimensions for multiband 15, 17, 20 m. Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-29 14:22:23 UTC
From: gdguy21
Topic: 2390 Message: 2390

I am trying to convert my Traffie 10 and 15 meter duo band Hexbeam to 15 and 17 meters. I'll add 20 m. later. What wire element dimensions should i use?

What gauge wire are the lenghths calculated?

Many thanks,

Howard

2391. Hexbeam to Hexbeam QSO was fun on 17 m.!

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-30 00:39:11 UTC
From: gdguy21
Topic: 2391 Message: 2391

W1GQL and I met on 17 m. CW yesterday and had a great QSO! I had just utilized Dave's measurements for my 17 m. hexbeam conversion.

Howard

2392. looking for DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-30 19:11:16 UTC
From: ic746_mike
Topic: 2392 Message: 2392

Hi to all,
i am looking for Holger..
i wrote him a email in german but no response..
my english is not the vy best and the grammatic is freightend.
it is easier to ask questions in the motherlanguage

did anyone new anythiny about him ?

c ya Mike

p.s. i have from 1.4 until 15.4. no inet so
please answer via dh6jl@..., so i can
check my emails from my qrl...

2393. Re: looking for DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-31 12:33:12 UTC
From: dl7io
Topic: 2392 Message: 2393

Hallo Mike,
ich war zwar über Ostern nicht zu Hause, habe aber auch keine e-mail
von Dir bekommen. Die Anzeige der kompletten e-mail adresse wird
verhindert, deshalb eine Umschreibung. Versuche holger at 9h3m.com und
gib mir die Adresse für die Antwort mit an.
Gruß Holger

--- In hex-beam@yahoogroups.com, "ic746_mike" <ic-746@g...> wrote:
>
> Hi to all,
> i am looking for Holger..
> i wrote him a email in german but no response..
> my english is not the vy best and the grammatic is freightend.
> it is easier to ask questions in the motherlanguage
>
> did anyone new anythiny about him ?
>
> c ya Mike
>
> p.s. i have from 1.4 until 15.4. no inet so
> please answer via dh6jl@w..., so i can
> check my emails from my qrl...

2394. Sending Direct Emails

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-03-31 13:11:38 UTC
From: w4wb
Topic: 2394 Message: 2394

Folks,

If you want to send an email direct to another member, simply click on the selection in the upper right area of the posting that says "Send Email." This will then pop up a form for you to fill out and send to the person. The email address is partially hidden, but Yahoo! knows it correctly.

73,
Barry W4WB
Moderator

2395. HEXMEETING WITH HEXBEAMERS 2ND / 3RD OF APRIL

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-02 01:17:23 UTC
From: Paulo
Topic: 2395 Message: 2395

I WOULD LIKE TO INVITE ALL OF YOU RADIOHAM FRIENDS WITH HEXBEAMS TO MEET TOMORROW BETWEEN 16.00/16.30 UTC ON 14150..OR 18120..OR 24970...MHZ..I THINK THESE FREQUENCIES ARTE NOT SO BUSY AND WE CAN MAKE AN HEXBEAM PARTY..LETS JOIN ALL TOGETHER..

WE CAN START A NICE HEX-ROUNDTABLE..EVERY WEEKENDS..SO WE CAN DISCUSS OUR QUESTIONS.SHARE EXPERIENCES..FROM DXING.TO.TECHNICAL .EXPERIENCES..AND MAKE FRIENSHIPS.....

WHAT DO YOU THINK???...

ALL HEXBEAMERS ARE WELCOME...

PLEASE JOIN..AND SPENT SOME NICE HEXTIME TOGETHER....
HOPE TO SEE YOU TOMORROW (SATURDAY 2ND OF APRIL)..OR/AND SUNDAY (3RD APRIL) AT THE SAME TIME AND FRQUENCY.....

SEE YOU.....:-))

CT1ITZ

PAULO

2396. TOMORROW WE TRY AGAIN...

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-02 17:07:14 UTC
From: Paulo
Topic: 2396 Message: 2396

It seems that today i was not able to copy any of the stations...there is the SP (Polish) Contest..:-(((..not in WARC Bands..so tomorrow i will be standing by at 17.00 UTC..its better for every body....you all can sleep a bit later on..:-))
Sorry i was not counting with this contest..also at around 17.00..i check the propagation is fine on 18119,2..just listening to US station 5/9..but are not Hexbeamers :-((

See you if possible tomorrow...18120.and 14120...12 meters is dead...just checked and 15 meters are not so predictable like 20 meters or 17 meters..

I also ask please make calls ..do not stand by ...call like hexbeamer ct1itz calling group....put some spots on the cluster..that would be nice..

Thank you
Paulo
CT1ITZ

2397. 20 meters frequency will change

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-03 00:30:12 UTC
From: Paulo
Topic: 2397 Message: 2397

Due to USA restrictions by law we will try to meet all in 14160..and
if it is busy than we QSY...
We still have 17 meters....18120..ok...
Hope to see you all there.....
Good night

Paulo

CT1ITZ

PS: please check the spots.on the web cluster.....so we can all see
where are we...and when you arrive to the frequency, please identify
your self as member of the group.and your call sign ok..:-))))
Thank you

2398. Re: 20 meters frequency will change

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-03 02:55:14 UTC
From: w4wb
Topic: 2397 Message: 2398

Paulo,

14.160 is restricted to Extra Class amateurs in the USA. To include everyone, you need to be above 14.225. I regret that I have other plans at the sked time, but perhaps another day we can have a QSY.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
>
>
>
> Due to USA restrictions by law we will try to meet all in
14160..and
> if it is busy than we QSY...
> We still have 17 meters....18120..ok...
> Hope to see you all there.....
> Good night
>
> Paulo
>
> CT1ITZ
>
>
> PS: please check the spots.on the web cluster.....so we can all
see
> where are we...and when you arrive to the frequency, please
identify
> your self as member of the group.and your call sign ok..:-))))
> Thank you

2399. W6HB and CT1ITZ beat record on bands:-)

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-03 23:00:13 UTC
From: Paulo
Topic: 2399 Message: 2399

Today i start a QSO with W6HB Doug around 17.00 on 17 meters..we tested the FB..signal reports..it was possible to listen with 5 watts between 2 Hexbeams from Portugal and California..let me tell you that the qso was made barefoot 98 % of it..Doug..beat the signals from many US Stations..incredible...
Tan after nore than 1 hour we moved to 15 meters and the band was excelent..the FB of the antennas was excelent 3...5 units... we were followed by a station from S. Dakota KC0SKF..Craig...but his Signal was very low comparing to Doug....

On 15 meters we had a nice surprise..ZL1FT...join us and we made a triangle...beautiful..he was amazed with the HEX performance..we did barefoot..me and Doug...

I want to Thank Doug for this excelent HAM moment..he is a really an Excelent Radioham.and friend..

we tested all we could..my antenna is in a tower 18,5 meters(see my photos) and the attack angle kick me on Dxing outside Europe..and Europe no complaints... today i worked 4 times Alaska..Sri Lanka..S.Cook Islands..etc..of course that many of the time i might use AL..

I have 5 sound files i would like to share with you.. so you could see how strong W6HB was comparing to other stations...but iam not sure if i can post them here...

Conclusion: With the Hexbeam i am not affraid to go on pile ups anymore with C3 Force 12´s .2/3 Elements yaggy beams..let them came ...and we will see... this is a big surprise for me..i do not want another antenna...my umbrella upside down..is Excelent..

PS: Lets see if in the next Sunday we can join more Hexbeamers...

My best 73´s

Paulo

CT1ITZ

2400. Homebrew question.

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-06 09:42:02 UTC
From: Ken Luther/KD5ZCL
Topic: 2400 Message: 2400

Is there any reason why this antenna can't be inverted so it looks like a regular umbrella?? It might be easier to build using cheap plastic tubing so you could take advantage of the natural weight/sag of the tubes.

Would putting the 20M band on the bottom and the 10 meter at the top degrade the performance significantly?

Thanks,
Ken

2401. Re: [hex-beam] 20 meters frequency will change

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-06 09:03:06 UTC
From: BILL CODY
Topic: 2397 Message: 2401

What day and times are the nets?
Cody

Paulo <paulo.paixao@...> wrote:

Due to USA restrictions by law we will try to meet all in 14160..and
if it is busy than we QSY...
We still have 17 meters....18120..ok...
Hope to see you all there.....
Good night

Paulo

CT1ITZ

PS: please check the spots.on the web cluster.....so we can all see
where are we...and when you arrive to the frequency, please identify
your self as member of the group.and your call sign ok..:-))))
Thank you

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[Non-text portions of this message have been removed]

2402. Re: Homebrew question.

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-06 12:59:05 UTC
From: w4wb
Topic: 2400 Message: 2402

Ken,

It is arranged as it is to take atvantage of physics, i.e.,
gravity "pulls" the arms out and keeps tension on the wires and the
shape of the antenna. Invert and you have a bit of a problem to deal
with then. Also, having the lower freq elements higher is better.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Ken Luther/KD5ZCL" <sparkzz@a...>
wrote:
>
> Is there any reason why this antenna can't be inverted so it looks
> like a regular umbrella?? It might be easier to build using cheap
> plastic tubing so you could take advantage of the natural weight/sag
> of the tubes.
>
> Would putting the 20M band on the bottom and the 10 meter at the top
> degrade the performance significantly?
>
> Thanks,
> Ken

2403. Re: Homebrew question.

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-06 13:47:48 UTC
From: dl7io
Topic: 2400 Message: 2403

Hello Ken,
as Barry already mentioned, there is no cost advantage with umbrella-like installations as you need strong spreaders to hold the wire elements in their levels.
But usually it can be done this way. I have played with the idea to install a stack of 4 antennas in a 2 x 2 array. So inverting the antenna is possible.
regards Holger

PS. I have build and currently installed a version from 40-12m. Unfortunaly the 12m element does not work as calculated. The other elements only needed a fine tuning of 3-4 cm.
As I'm on a business trip I am not able to continue and had to delay this. Nevertheless it looks nice to have two 40m+ beams in the garden...

PPS. Barry, have you already installed your 40/30m beam?

2404. Re: 20 meters frequency will change

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-06 21:22:52 UTC
From: Paulo
Topic: 2397 Message: 2404

--- In hex-beam@yahoogroups.com, BILL CODY <need2cycle@y...> wrote:
>

Hi Cody... We do not have exact schedule for these nets ..but we
are starting doing it, in an informal way..next saturday i have to
go to Lisbon..only came back in the eevening..so Sunday at 17.00
Zulu in 18120...or if its busy we put a spot in the cluster to say
where we are ok..

I really would like to meet more friends fom the group...please came
and join us...
Thank you...

Paulo
CT1ITZ

> What day and times are the nets?
> Cody
>
> Paulo <paulo.paixao@n...> wrote:
>
>
>
> Due to USA restrictions by law we will try to meet all in
14160..and
> if it is busy than we QSY...
> We still have 17 meters....18120..ok...
> Hope to see you all there.....
> Good night
>
> Paulo
>
> CT1ITZ
>
>
> PS: please check the spots.on the web cluster.....so we can all
see
> where are we...and when you arrive to the frequency, please
identify
> your self as member of the group.and your call sign ok..:-))))
> Thank you
>
>
>
>
>

> ---
> Yahoo! Groups Links
>
> To visit your group on the web, go to:
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>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
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>
>
> ---
> Do you Yahoo!?
> Better first dates. More second dates. Yahoo! Personals
>
> [Non-text portions of this message have been removed]

2405. Re: [hex-beam] Re: 20 meters frequency will change

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-08 17:48:29 UTC
From: BILL CODY
Topic: 2397 Message: 2405

I'll try if I'm Home
73 !

Paulo <paulo.paixao@...> wrote:

--- In hex-beam@yahoogroups.com, BILL CODY <need2cycle@y...> wrote:
>

Hi Cody... We do not have exact schedule for these nets ..but we
are starting doing it, in an informal way..next saturday i have to
go to Lisbon..only came back in the eevening..so Sunday at 17.00
Zulu in 18120...or if its busy we put a spot in the cluster to say
where we are ok..

I really would like to meet more friends fom the group...please came
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Thank you...

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CT1ITZ

> What day and times are the nets?
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> Paulo <paulo.paixao@n...> wrote:
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> Due to USA restrictions by law we will try to meet all in
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> if it is busy than we QSY...
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> Paulo
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> CT1ITZ
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>
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> your self as member of the group.and your call sign ok..:-))))
> Thank you

>
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>
>
> ---
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> hex-beam-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>
> ---
> Do you Yahoo!?
> Better first dates. More second dates. Yahoo! Personals
>
> [Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

2406. Re: Making a homeBrew Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-08 18:34:38 UTC
From: g0vdz
Topic: 2365 Message: 2406

Hi all and Bill.
I too am interested in building a hexbeam
If you look through the files section you will find DL7IO home installation. This has a lot of usefull info and details of how to build one.
You can also type in hexbeam into a search engine that will help.
EI7ba also has a usefull website
That should be enough to keep you going for a while
All the best gd dx Nigel G0VDZ

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
>
> Hello Bill and a few others as well,
> of course can we help! And we will if you have any problem, like we
> did for Paulo, who's beam is playing well now.
>
> But please: if you are serious interested, you should first read the
> posting on this forum. This would give you a lot of helpful
> information and links you need. And probably you will find answers on
> most of the questions you have in the beginning.
>
> You will find links and information for mono- or multiband designs in
> all variations you may wish to build, simply by reading the postings.
>
> It is only a little work compared to developing or designing an
> antenna and I guess it is the minimum we can expect from everybody
> here.
>
> Sorry if I have been to direct.
> Regards Holger
> >
> >
> > Can somebody help? I want to biuld my own Hex Beam. I was somebody
> > out there has a set of plans I can use.
> > Thanks in advace.
> >
> >
> > Bill

2407. SERIOUS RFI AND TVI TROUBLE..I NEED HELP

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-11 23:55:04 UTC
From: Paulo
Topic: 2407 Message: 2407

My Dear friends..what is good does not last long..my Hex performes so well that ..i fell very unhappy with ther situation i am afacing now..i interfere in many people even using 100 watts and the antena is 18 meters high..
Plss guys i put the shock as recomended..bettween the antenna and thye radio i installed a current mode filter made in Germany...
Can anybody help me in this case otherwise ..with so many complaints from neighbours i have to go QRT.
I have 2 line Isolators from Radio works and a Kenwood TVI filter..on the schack..what can i do..is there anything wrong????
Please my friends can you help me.....???????

Thank you
Paulo
Ct1ITZ

2408. Re: [hex-beam] SERIOUS RFI AND TVI TROUBLE..I NEED HELP

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-12 00:32:13 UTC
From: kd1ia
Topic: 2407 Message: 2408

Sounds like saw the new antenna itis. AKA the inteferance if it is there now was likely there before. But they just saw a new antenna and decided it must be the cause of all there problems.The problem if there is one outside of your neighbors heads is there cheap tv's.

de John ko1h

----- Original Message -----
From: Paulo
To: hex-beam@yahoogroups.com
Sent: Monday, April 11, 2005 11:55 PM
Subject: [hex-beam] SERIOUS RFI AND TVI TROUBLE..I NEED HELP

My Dear friends..what is good does not last long..my Hex performes so well that ..i fell very unhappy with ther situation i am afacing now..i interfere in many people even using 100 watts and the antena is 18 meters high..
Plss guys i put the shock as recomended..bettween the antenna and thye radio i installed a current mode filter made in Germany...
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Please my friends can you help me.....???????

Thank you
Paulo
Ct1ITZ

Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Anti-Virus.
Version: 7.0.308 / Virus Database: 266.9.6 - Release Date: 4/11/2005

No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.308 / Virus Database: 266.9.6 - Release Date: 4/11/2005

[Non-text portions of this message have been removed]

2409. Re: [hex-beam] SERIOUS RFI AND TVI TROUBLE..I NEED HELP

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-12 00:46:22 UTC
From: Dale Parfitt
Topic: 2407 Message: 2409

----- Original Message -----
From: Paulo
To: hex-beam@yahoogroups.com
Sent: Monday, April 11, 2005 7:55 PM
Subject: [hex-beam] SERIOUS RFI AND TVI TROUBLE..I NEED HELP

My Dear friends..what is good does not last long..my Hex performes so
well that ..i fell very unhappy with ther situation i am afacing
now..i interfere in many people even using 100 watts and the antena is
18 meters high..
Plss guys i put the shock as recomended..bettween the antenna and thye
radio i installed a current mode filter made in Germany...
Can anybody help me in this case otherwise ..with so many complaints
from neighbours i have to go QRT.
I have 2 line Isolators from Radio works and a Kenwood TVI filter..on
the schack..what can i do..is there anything wrong????
Please my friends can you help me.....???????

Thank you
Paulo
Ct1ITZ

Hi Paulo,
It is unlikely that your TX/ANT is the culprit. Most likely this is a case of fundamental overload- and NO filter on the TX can alleviate this. You would need to diagnose the individual instances and install high pass filters and ferrite chokes on your neighbor's appliances.
Dale W4OP

Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2410. Re: [hex-beam] SERIOUS RFI AND TVI TROUBLE..I NEED HELP

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-12 12:04:16 UTC
From: N7HIY
Topic: 2407 Message: 2410

Hello Paulo,

Your neighbors' tv interference probably caused by fundamental rf overload of the tv's because of low cost design with no or inadaquate rf rejection.

is your area served by cable tv or by broadcast tv with rooftop antennas? what tv channel freqs area affected, video or audio or both? is the tv feedline coax used double shield with braid over foil shield? braid shield alone leaks substancially above 10 MHz.
If commercial cable tv system, what is the condition and quality of their feedlines and drops? Do they have signal egress leakage?

each home case may require different solutions depending on ingress point into tv.
1. High pass tv filters at tv antenna and tv.
2. AC power filtering on power lead into tv consumer electronics
3. Common mode filtering via ferrite cores on tv coax both at tv antenna and at tv.
4. Current break of tv coax shield with back to back 75>300>300>75 ohm tv coax baluns that are open to dc on shield.

If you do the filtering changes yourself to neigbors electronics, you may become legally liable for work done. Depends on local laws.
Many tv and high end stereo stores/shops offer good quality interference solving and resolution.

Try going off the air for 3-4 weeks and tell the neigbors that you are off the air due to work and family requirements. Then come back on with low power 10-20 watts and slowly work back up and see if complaints return.

gl on solutions and your new highly visible antenna

Cliff N7HIY

----- Original Message -----
From: Paulo
To: hex-beam@yahoogroups.com
Sent: Monday, April 11, 2005 16:55 PM
Subject: [hex-beam] SERIOUS RFI AND TVI TROUBLE..I NEED HELP

My Dear friends..what is good does not last long..my Hex performes so
well that ..i fell very unhappy with ther situation i am afacing
now..i interfere in many people even using 100 watts and the antena is
18 meters high..
Plss guys i put the shock as recomended..bettween the antenna and thye
radio i installed a current mode filter made in Germany...
Can anybody help me in this case otherwise ..with so many complaints
from neighbours i have to go QRT.
I have 2 line Isolators from Radio works and a Kenwood TVI filter..on
the schack..what can i do..is there anything wrong????

Please my friends can you help me.....???????

Thank you
Paulo
Ct1ITZ

Yahoo! Groups Links

a.. To visit your group on the web, go to:
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c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

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avast! Antivirus: Outbound message clean.
Virus Database (VPS): 0515-1, 04/12/2005
Tested on: 4/12/2005 5:04:17 AM
avast! - copyright (c) 2000-2004 ALWIL Software.
http://www.avast.com

[Non-text portions of this message have been removed]

2411. RFI and TVI..on HEX??????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-12 22:50:29 UTC
From: Paulo
Topic: 2411 Message: 2411

Dear friends..
This is the most strange thing that ever happen to me... I wounder when the Hex was on the roof..i made dxing..and nobody ever complaint..now that she is at around 20 meters high..she interfere on tvs..how came this is possible my friends..pleaaasssseeeee help me to solve this enigma.....i have in my station against RFI and TVI..i have:
2 Line Isolator from Radio works
1 Commom Mode Filter from Germany
1 Low Pass Filter from Kenwood
1 Filter on the power line
1 Shock made of torroids in the base of the antenna.

This is all so strange.....
I would apreciatte your help..in ideas to solve this..may be to put it again in the roof???
My best 73´s
Paulo
CT1ITZ

PS: Even though i love my Hexbeam ..she is fantastic on dxing..let the yaggys came and we will see on pile ups who wins...(pitty i have this problem with neighbours).....i am not scared of them...this is a excelent antenna for dxing..i have beeen receiving some mails from Radiohams who listen to me on pile ups..and want to know more about this beauty...just my neighbours....i am scared :-(((((

2412. Re: [hex-beam] RFI and TVI..on HEX??????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-12 23:22:30 UTC
From: we1x@comcast.net
Topic: 2411 Message: 2412

Paulo,

Are you running more power now? If you were running 100 watts before, but now 1kw that could easily make fundamental overload happen.

You say the Hexbeam is 20m high. Is it now mounted on a tower that is on the roof, or did you move it to a different location?

Now the Hexbeam is 20m high you must be using longer runs of coax. Do the connectors fit properly? Have the connectors been installed properly?

Harry WE1X

---------- Original message ----------

>
>
> Dear friends..
> This is the most strange thing that ever happen to me... I wounder
> when the Hex was on the roof..i made dxing..and nobody ever
> complaint..now that she is at around 20 meters high..she interfere
> on tvs..how came this is possible my friends..pleaaassssseeeee help
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> TVI..i have:
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>
> This is all so strange.....
> I would apreciatte your help..in ideas to solve this..may be to put
> it again in the roof???
> My best 73?s
> Paulo
> CT1ITZ
>
> PS: Even though i love my Hexbeam ..she is fantastic on dxing..let
> the yaggys came and we will see on pile ups who wins...(pitty i have
> this problem with neighbours).....i am not scared of them...this is
> a excelent antenna for dxing..i have beeen receiving some mails from
> Radiohams who listen to me on pile ups..and want to know more about
> this beauty...just my neighbours....i am scared :-(((((
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

2413. Re: [hex-beam] RFI and TVI..on HEX??????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-13 04:32:04 UTC
From: Mike/k1eg
Topic: 2411 Message: 2413

Paulo as an experiment try removing everything except the torroids and see if this helps.

Ciao
Mike/K1EG

----- Original Message -----
From: "Paulo" <paulo.paixao@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, April 12, 2005 5:50 PM
Subject: [hex-beam] RFI and TVI..on HEX??????

Dear friends..
This is the most strange thing that ever happen to me... I wounder when the Hex was on the roof..i made dxing..and nobody ever complaint..now that she is at around 20 meters high..she interfere on tvs..how came this is possible my friends..pleaaassssseeeee help me to solve this enigma.....i have in my station against RFI and TVI..i have:
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1 Filter on the power line
1 Shock made of torroids in the base of the antenna.

This is all so strange.....
I would apreciatte your help..in ideas to solve this..may be to put it again in the roof???
My best 73?s
Paulo
CT1ITZ

PS: Even though i love my Hexbeam ..she is fantastic on dxing..let the yaggys came and we will see on pile ups who wins...(pitty i have this problem with neighbours).....i am not scared of them...this is a excelent antenna for dxing..i have beeen receiving some mails from Radiohams who listen to me on pile ups..and want to know more about this beauty...just my neighbours....i am scared :-(((((

Yahoo! Groups Links

2414. Re: [hex-beam] RFI and TVI..on HEX??????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-13 07:06:12 UTC
From: James Balls
Topic: 2411 Message: 2414

Paulo ..

Do you know it is you making the interference .. ??

Make up some log books and get all the complaining people to fill out
the log books over the next week, compare times, bands etc with the
interference complaints to see :-

A, if it is you, or if is someone else / they are making it up
B, if it is you what bands are causing the problem .. you may find it's
only 1 band and you can work around this in the short term

Regards,

Jim M0CKE

Paulo wrote:

>Dear friends..
>This is the most strange thing that ever happen to me... I wounder
>when the Hex was on the roof..i made dxing..and nobody ever
>complaint..now that she is at around 20 meters high..she interfere
>on tvs..how came this is possible my friends..pleaaasssseeeee help
>me to solve this enigma.....i have in my station against RFI and
>TVI..i have:
>2 Line Isolator from Radio works
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>1 Filter on the power line
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>
>This is all so strange.....
>I would apreciatte your help..in ideas to solve this..may be to put
>it again in the roof???
>My best 73?s
>Paulo
>CT1ITZ
>
>PS: Even though i love my Hexbeam ..she is fantastic on dxing..let
>the yaggys came and we will see on pile ups who wins...(pitty i have
>this problem with neighbours).....i am not scared of them...this is
>a excelent antenna for dxing..i have beeen receiving some mails from
>Radiohams who listen to me on pile ups..and want to know more about
>this beauty...just my neighbours....i am scared :-(((((
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>Yahoo! Groups Links
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2415. Poles

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-11 19:22:10 UTC
From: g0vdz
Topic: 2415 Message: 2415

I am about to buy the fibreglass fishing poles to make a 5 band hex beam. Are the telescopic one ok or do they tend to go back insideeach other, as can happen with a vertical pole, or do I have to get putover poles
All the best Nigel

2416. Re: hex beam spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-11 19:50:46 UTC
From: g0vdz
Topic: 2385 Message: 2416

--- In hex-beam@yahoogroups.com, gerry nunan <ke5dwm@y...> wrote:
> Hi Gerry.
, all I can help with is my experiances with graphite poles.
I usually put up a bits and bobs mast for a topband vertical with a
fibreglass pole at the top. It works fine. I then got a longer
11metre pole to replace the 10m fibre one
I didn't work It would not load properly and the swr was constantlly
changing as the slight brezze moved the tip of the mast.
But It works ok when it have a stright forward dipole. So I would
suggest if the wires are running accross the pole ok If running
along the pole not so good but as you already have them try it out
you have nothing to lose

All the best Nigel G0VDZ
> Hi ....
>
> I am new to the group and am enjoying this hexbeam adventure a
lot ....
>
> I was wondering if anyone has any experience using fishing poles
which might contain graphite ...they seem to be fiberglas, but they
do have graphite stamped on them..... otherwise, theyre
perfect .... 10 ft long, great flex ... also they're blanks (no
eyes or stuff on them) .. i have 10 of them ....
>
> does anyone have an idea about this
>
> tnx and 73's .... gerry .. KE5DWN .. near San Anton, TX
>
>
> ---
> Do you Yahoo!?

> Yahoo! Small Business - Try our new resources site!
>
> [Non-text portions of this message have been removed]

2417. Re: SERIOUS RFI AND TVI TROUBLE..I NEED HELP

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-16 01:35:04 UTC
From: Alan
Topic: 2407 Message: 2417

--- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
>
> My Dear friends..what is good does not last long..my Hex
performes so
> well that ..i fell very unhappy with ther situation i am afacing
> now..i interfere in many people even using 100 watts and the
antena is
> 18 meters high..
> Plss guys i put the shock as recomended..bettween the antenna and
thye
> radio i installed a current mode filter made in Germany...
> Can anybody help me in this case otherwise ..with so many
complaints
> from neighbours i have to go QRT.
> I have 2 line Isolators from Radio works and a Kenwood TVI
filter..on
> the schack..what can i do..is there anything wrong????
> Please my friends can you help me.....???????
>
> Thank you
> Paulo
> Ct1ITZ

Your neighbors might think you are the problem since they can now see your antenna. You might have to take a weeks vacation from using the radio and see if they still have problems while you were not on the air. At least you will be able to tell if you are really causing a problem. Convincing your neighbors you aren't is another matter. Maybe you can tell them it is a really big satellite dish and you don't use it for transmitting.

2418. RE: [hex-beam] Re: SERIOUS RFI AND TVI TROUBLE..I NEED HELP

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-16 20:28:54 UTC
From: Ed Fox
Topic: 2407 Message: 2418

Allen, your leaving the station off the air was a good idea, but telling the
neighbors "it's just a sattalite dish" is not.
Good luck Paulo....N0OQ (Ed)....

>From: "Alan" <alanadler@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] Re: SERIOUS RFI AND TVI TROUBLE..I NEED HELP
>Date: Sat, 16 Apr 2005 01:35:04 -0000
>
>
>--- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
> >
> > My Dear friends..what is good does not last long..my Hex
>performes so
> > well that ..i fell very unhappy with ther situation i am afacing
> > now..i interfere in many people even using 100 watts and the
>antena is
> > 18 meters high..
> > Plss guys i put the shock as recomended..bettween the antenna and
>thye
> > radio i installed a current mode filter made in Germany...
> > Can anybody help me in this case otherwise ..with so many
>complaints
> > from neighbours i have to go QRT.
> > I have 2 line Isolators from Radio works and a Kenwood TVI
>filter..on
> > the schack..what can i do..is there anything wrong????
> > Please my friends can you help me.....???????
> >
> > Thank you
> > Paulo
> > Ct1ITZ
>
>Your neighbors might think you are the problem since they can now
>see your antenna. You might have to take a weeks vacation from
>using the radio and see if they still have problems while you were
>not on the air. At least you will be able to tell if you are really
>causing a problem. Convincing your neighbors you aren't is another
>matter. Maybe you can tell them it is a really big satellite dish
>and you don't use it for transmitting.
>
>
>

2419. Hex Beam help

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-19 00:50:14 UTC
From: k9ge
Topic: 2419 Message: 2419

Hi All - My name is Harold and I'm in southern Indiana. It seems that I need some help on the Hex beam I've built up and from what I read on the news group you've provided alot of help to alot of people, so I thought I might impose on you for some help if you don't mind. I've built a mono band for 17 meters using 6 fiberglass fishing rods, 10 feet long, mounted to a 1/2" piece of poly at 60 degree spacing. I used 16 gauge, 7 stranded copper wire for driven element and reflector, the feed point of the driven element has 3/4" spacing and the spacing between the driven element and reflector is 1" at the center. I used the formula 6180/freq. for the total length of the driven element and 6262/freq. for the reflector, my tip spacing for the driven element is 5 1/2" on both sides and 3 1/2" for the reflector and all the elements are level in a horizontal plane. My problem is I cannot get the SWR down below 4-1 at 18.140 mhz. I'm using a MFJ 259B, the antenna resonates at about 17.160 mhz (SWR 1-1). I've tried about everthing I can think of, I've shortened the driven element, increased the spacing between the driven element and reflector, tried it at 6' and 15' and got the same readings. There are no metal objects (downspouts, gutters, furniture, pool etc.). I can get it to resonate at a lower freq. by adding a few inches of wire to each side of the driven element. I borrowed a friends MFJ 259B and got the same results. I've got a 17 mtr. dipole up and the analyzer checks it out perfectly. I've tried feeding it with RG8/U, RG58/U and RG 213 same results. I'm 75 years old here and been a ham almost 50 yrs. so I do know a little about what I'm doing and it's probably something really simple I'm overlooking, but it's got me scratching my head right now. If you could please offer some advice, it would be MUCH appreciated. Thanks - Harold - K9ge --

2420. N9iww here is some help [hex-beam] Hex Beam help see attached file

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-20 01:07:23 UTC
From: Kevin Adam
Topic: 2419 Message: 2420

Harold here are some wire numbers to go by to better give you an idea of what length they are and where they are please let me know if this helps you some I ran them in eznec 4 to run plots so this should be good or very close to what you need. Visit the hex beam group in yahoo the wiil be the file there it's 2 mb's so it can't email it.
N9IWW
Kevin Adam
Fort Wayne,in 46825

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of k9ge
Sent: Monday, April 18, 2005 7:50 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Hex Beam help

Hi All - My name is Harold and I'm in southern Indiana. It seems that I need some help on the Hex beam I've built up and from what I read on the news group you've provided alot of help to alot of people, so I thought I might impose on you for some help if you don't mind. I've built a mono band for 17 meters using 6 fiberglass fishing rods, 10 feet long, mounted to a 1/2" piece of poly at 60 degree spacing. I used 16 gauge, 7 stranded copper wire for driven element and reflector, the feed point of the driven element has 3/4" spacing and the spacing between the driven element and reflector is 1" at the center. I used the formula 6180/freq. for the total length of the driven element and 6262/freq. for the reflector, my tip spacing for the driven element is 5 1/2" on both sides and 3 1/2" for the reflector and all the elements are level in a horizontal plane. My problem is I cannot get the SWR down below 4-1 at 18.140 mhz. I'm using a MFJ 259B, the antenna resonates at about 17.160 mhz (SWR 1-1). I've tried about everthing I can think of, I've shortened the driven element, increased the spacing between the driven element and reflector, tried it at 6' and 15' and got the same readings. There are no metal objects (downspouts, gutters, furniture, pool etc.). I can get it to resonate at a lower freq. by adding a few inches of wire to each side of the driven element. I borrowed a friends MFJ 259B and got the same results. I've got a 17 mtr. dipole up and the analyzer checks it out perfectly. I've tried feeding it with RG8/U, RG58/U and RG 213 same results. I'm 75 years old here and been a ham almost 50 yrs. so I do know a little about what I'm doing and it's probably something really simple I'm overlooking, but it's got me scratching my head right now. If you could please offer some advice, it would be MUCH appreciated. Thanks - Harold - K9ge --

Yahoo! Groups Links

2421. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-20 01:13:47 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 2421

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /17mHexWith16Ga_14GaPlots.pdf
Uploaded by : kevinadam <n9iww@...>
Description : 17 meter plot with #14 $16 ga us wire size and wire lenghts

You can access this file at the URL:
http://groups.yahoo.com/group/hex-beam/files/17mHexWith16Ga_14GaPlots.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

kevinadam <n9iww@...>

2422. Re: N9iww here is some help [hex-beam] Hex Beam help see attached file

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-20 06:11:31 UTC
From: jerry farek
Topic: 2419 Message: 2422

Just curious whetther the gentleman changed the reflector length when he change the Driven length? Abd what the spacing at the coax attach point is? Jerry N5GND

Kevin Adam <n9iww@...> wrote:Harold here are some wire numbers to go by to better give you an idea of
what length they are and where they are please let me know if this helps you
some I ran them in eznec 4 to run plots so this should be good or very close
to what you need. Visit the hex beam group in yahoo the wiil be the file
there it's 2 mb's so it can't email it.
N9IWW
Kevin Adam
Fort Wayne,in 46825

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf
Of k9ge
Sent: Monday, April 18, 2005 7:50 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Hex Beam help

Hi All - My name is Harold and I'm in southern Indiana. It seems that
I need some help on the Hex beam I've built up and from what I read
on the news group you've provided alot of help to alot of people, so
I thought I might impose on you for some help if you don't mind. I've
built a mono band for 17 meters using 6 fiberglass fishing rods, 10
feet long, mounted to a 1/2" piece of poly at 60 degree spacing. I
used 16 gauge, 7 stranded copper wire for driven element and
reflector, the feed point of the driven element has 3/4" spacing and
the spacing between the driven element and reflector is 1" at the
center. I used the formula 6180/freq. for the total length of the
driven element and 6262/freq. for the reflector, my tip spacing for
the driven element is 5 1/2" on both sides and 3 1/2" for the
reflector and all the elements are level in a horizontal plane. My
problem is I cannot get the SWR down below 4-1 at 18.140 mhz. I'm
using a MFJ 259B, the antenna resonates at about 17.160 mhz (SWR 1-
1). I've tried about everthing I can think of, I've shortened the
driven element, increased the spacing between the driven element and
reflector, tried it at 6' and 15' and got the same readings. There
are no metal objects (downspouts, gutters, furniture, pool etc.). I
can get it to resonate at a lower freq. by adding a few inches of
wire to each side of the driven element. I borrowed a friends MFJ
259B and got the same results. I've got a 17 mtr. dipole up and the
analyzer checks it out perfectly. I've tried feeding it with
RG8/U, RG58/U and RG 213 same results. I'm 75 years old here
and been a ham almost 50 yrs. so I do know a little about what I'm
doing and it's probably something really simple I'm overlooking, but

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some advice, it would be MUCH appreciated. Thanks - Harold - K9ge --

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[Non-text portions of this message have been removed]

2423. Re: N9iww here is some help [hex-beam] Hex Beam help see attached file

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-20 11:41:01 UTC
From: john labutski
Topic: 2419 Message: 2423

Hello Harold,

Based on the information as I read it, your driven elements are too short. Because there is interaction between the elements on the traditional 5 band hex beam the formulas tend to favor the short side. Since you have 10 ft poles, it may be difficult to lengthen the elements. I suggest adding a 15 meter setup with light gauge wire to your 17 meter hexbeam. I will bet that this brings you closer into reasonable swr's.

John
kd6wd/4 Ocala Florida
----- Original Message -----
From: jerry farek
To: hex-beam@yahoogroups.com
Sent: Wednesday, April 20, 2005 2:11 AM
Subject: Re: N9iww here is some help [hex-beam] Hex Beam help see attached file

Just curious whetther the gentleman changed the reflector length when he change the Driven length? Abd what the spacing at the coax attach point is? Jerry N5GND

Kevin Adam <n9iww@...> wrote:Harold here are some wire numbers to go by to better give you an idea of
what length they are and where they are please let me know if this helps you
some I ran them in eznec 4 to run plots so this should be good or very close
to what you need. Visit the hex beam group in yahoo the wiil be the file
there it's 2 mb's so it can't email it.
N9IWW
Kevin Adam
Fort Wayne,in 46825

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf
Of k9ge
Sent: Monday, April 18, 2005 7:50 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Hex Beam help

Hi All - My name is Harold and I'm in southern Indiana. It seems that
I need some help on the Hex beam I've built up and from what I read
on the news group you've provided alot of help to alot of people, so
I thought I might impose on you for some help if you don't mind. I've
built a mono band for 17 meters using 6 fiberglass fishing rods, 10
feet long, mounted to a 1/2" piece of poly at 60 degree spacing. I
used 16 gauge, 7 stranded copper wire for driven element and
reflector, the feed point of the driven element has 3/4" spacing and
the spacing between the driven element and reflector is 1" at the
center. I used the formula 6180/freq. for the total length of the

driven element and 6262/freq. for the reflector, my tip spacing for the driven element is 5 1/2" on both sides and 3 1/2" for the reflector and all the elements are level in a horizontal plane. My problem is I cannot get the SWR down below 4-1 at 18.140 mhz. I'm using a MFJ 259B, the antenna resonates at about 17.160 mhz (SWR 1-1). I've tried about everthing I can think of, I've shortened the driven element, increased the spacing between the driven element and reflector, tried it at 6' and 15' and got the same readings. There are no metal objects (downspouts, gutters, furniture, pool etc.). I can get it to resonate at a lower freq. by adding a few inches of wire to each side of the driven element. I borrowed a friends MFJ 259B and got the same results. I've got a 17 mtr. dipole up and the analyzer checks it out perfectly. I've tried feeding it with RG8/U, RG58/U and RG 213 same results. I'm 75 years old here and been a ham almost 50 yrs. so I do know a little about what I'm doing and it's probably something really simple I'm overlooking, but it's got me scratching my head right now. If you could please offer some advice, it would be MUCH appreciated. Thanks - Harold - K9ge --

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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

2424. Re: N9iww here is some help [hex-beam] Hex Beam help see attached file

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-20 13:59:07 UTC
From: k9ge
Topic: 2419 Message: 2424

--- In hex-beam@yahoogroups.com, "john labutski" <kd6wd@c...> wrote:
> Hello Harold,
>
> Based on the information as I read it, your driven elements are
too short. Because there is interaction between the elements on the
traditional 5 band hex beam the formulas tend to favor the short
side. Since you have 10 ft poles, it may be difficult to lengthen
the elements. I suggest adding a 15 meter setup with light gauge
wire to your 17 meter hexbeam. I will bet that this brings you closer
into reasonable swr's.
>
> John
> kd6wd/4 Ocala Florida
> ----- Original Message -----
> From: jerry farek
> To: hex-beam@yahoogroups.com
> Sent: Wednesday, April 20, 2005 2:11 AM
> Subject: Re: N9iww here is some help [hex-beam] Hex Beam help see
attached file
>
>
> Just curious whetther the gentleman changed the reflector length
when he change the Driven length? Abd what the spacing at the coax
attach point is? Jerry N5GND
>
> Kevin Adam <n9iww@v...> wrote:Harold here are some wire numbers
to go by to better give you an idea of
> what length they are and where they are please let me know if
this helps you
> some I ran them in eznec 4 to run plots so this should be good or
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> there it's 2 mb's so it can't email it.
> N9IWW
> Kevin Adam
> Fort Wayne,in 46825
>
>
> -----Original Message-----
> From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com]
On Behalf
> Of k9ge
> Sent: Monday, April 18, 2005 7:50 PM
> To: hex-beam@yahoogroups.com

> Subject: [hex-beam] Hex Beam help
>
>
>
>
> Hi All - My name is Harold and I'm in southern Indiana. It seems
that
> I need some help on the Hex beam I've built up and from what I
read
> on the news group you've provided alot of help to alot of people,
so
> I thought I might impose on you for some help if you don't mind.
I've
> built a mono band for 17 meters using 6 fiberglass fishing rods,
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> feet long, mounted to a 1/2" piece of poly at 60 degree spacing.
I
> used 16 gauge, 7 stranded copper wire for driven element and
> reflector, the feed point of the driven element has 3/4" spacing
and
> the spacing between the driven element and reflector is 1" at the
> center. I used the formula 6180/freq. for the total length of the
> driven element and 6262/freq. for the reflector, my tip spacing
for
> the driven element is 5 1/2" on both sides and 3 1/2" for the
> reflector and all the elements are level in a horizontal plane.
My
> problem is I cannot get the SWR down below 4-1 at 18.140 mhz. I'm
> using a MFJ 259B, the antenna resonates at about 17.160 mhz (SWR
1-
> 1). I've tried about everthing I can think of, I've shortened the
> driven element, increased the spacing between the driven element
and
> reflector, tried it at 6' and 15' and got the same readings.
There
> are no metal objects (downspouts, gutters, furniture, pool etc.).
I
> can get it to resonate at a lower freq. by adding a few inches of
> wire to each side of the driven element. I borrowed a friends MFJ
> 259B and got the same results. I've got a 17 mtr. dipole up and
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> analyzer checks it out perfectly. I've tried feeding it with
> RG8/U, RG58/U and RG 213 same results. I'm 75 years old
here
> and been a ham almost 50 yrs. so I do know a little about what
I'm
> doing and it's probably something really simple I'm overlooking,
but
> it's got me scratching my head right now. If you could please
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> some advice, it would be MUCH appreciated. Thanks - Harold -
K9ge --
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> ---
> Yahoo! Groups Links
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> To visit your group on the web, go to:
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>
> [Non-text portions of this message have been removed]
>
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> ---

> Yahoo! Groups Links

>
> a.. To visit your group on the web, go to:
> http://groups.yahoo.com/group/hex-beam/
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> b.. To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
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>
>
> [Non-text portions of this message have been removed]

2425. New Operator Homebrew help

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-23 16:44:34 UTC
From: geocom98
Topic: 2425 Message: 2425

Hello everyone

Let me start by saying what a great group this is
excellent information. I have a couple of questions
that I have not found the answers to maybe they are trivial
but here goes I was curious about the height of the
center mast that the elements connect to I am planning on building
a 20-6 meter version and was just curious if anyone had the measurements

Also I was wondering if PVC could be used I know I saw that question
asked somewhere but I did not see the answer. I have a feeling that
the added weight of PVC over fibreglass or bamboo would an adverse
affect on the overall life of the antenna at any rate thanks again for
a great group

Respectfully,
kc0ahe

2426. 5-band HexBeam and Delta-4 coax switch

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-23 12:54:00 UTC
From: k0pqstevebanks
Topic: 2426 Message: 2426

Hello Everyone,

I recently finished the installation of a new 5-band (20m-10m) Hex and have measured its SWR across all bands with my MFJ 259B meter. All SWRs appear quite "normal," ranging from about 2.5 down to 1.5 depending on the band and frequency being measured. I find that connecting the test meter directly to the shack feedline connector yields pretty good results as noted above.

However, when measured through a Delta-4 coaxial switch, the Hex SWRs are considerably higher, in the range of 6.0-8.0, instead of 2.5 to 1.5.

Has anyone else had similar experiences with a Delta-4 coax switch connected between the Hex feedline and a test meter or transceiver? If so, has the installation of Amidon beads near the antenna mounting plate as suggested by others helped?

I've used Delta-4 switches with other antennas and have never seen the SWR affected merely by connecting the switch.

Thanks for any thoughts.

Steve
K0PQ

2427. Re: New Operator Homebrew help

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-24 21:27:05 UTC
From: dl7io
Topic: 2425 Message: 2427

Hello KC0AHE,
I have not seen a design for 20-6m with own 6 m elements.
But the 5 bander 20-10m has a SWR of less than 1:2 between 50-54 MHz.
I'm not working on 6m so I don't know if there is much gain or V/R.
The height of the center hub of the 5 bander is about 1,10m.
PVC is not problem for the center hub. Try to find any UV-resistant
material or paint it. If you use PVC and you will paint it it helps
to rough up the surface with sand paper before painting.
regards Holger
--- In hex-beam@yahoogroups.com, "geocom98" <geocom98@y...> wrote:
>
>
> Hello everyone
>
> Let me start by saying what a great group this is
> excellent information. I have a couple of questions
> that I have not found the answers to maybe they are trivial
> but here goes I was curious about the height of the
> center mast that the elements connect to I am planning on building
> a 20-6 meter version and was just curious if anyone had the
measurements
>
> Also I was wondering if PVC could be used I know I saw that question
> asked somewhere but I did not see the answer. I have a feeling that
> the added weight of PVC over fibreglass or bamboo would an adverse
> affect on the overall life of the antenna at any rate thanks again
for
> a great group
>
> Respectfully,
> kc0ahe

2428. Re: 5-band HexBeam and Delta-4 coax switch

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-24 21:33:20 UTC
From: dl7io
Topic: 2426 Message: 2428

Hello Steve,
I have no experience with this delta 4 switch but probably there is
something wrong with the switch.
Take off all cables from the switch and check it with a Multimeter.
May be you are shortcircuiting 2 antennas?
The switch should not affect the SWR significant.
Nevertheless where do you have the SWR of 1:2,5? It is also very high.
Holger, DL7IO

--- In hex-beam@yahoogroups.com, "k0pqstevebanks" <sbanks2571@a...>
wrote:
>
>
> Hello Everyone,
>
> I recently finished the installation of a new 5-band (20m-10m) Hex
and
> have measured its SWR across all bands with my MFJ 259B meter. All
> SWRs appear quite "normal," ranging from about 2.5 down to 1.5
> depending on the band and frequency being measured. I find that
> connecting the test meter directly to the shack feedline connector
> yields pretty good results as noted above.
>
> However, when measured through a Delta-4 coaxial switch, the Hex
SWRs
> are considerably higher, in the range of 6.0-8.0, instead of 2.5 to
1.5.
>
> Has anyone else had similar experiences with a Delta-4 coax switch
> connected between the Hex feedline and a test meter or transceiver?
> If so, has the installation of Amidon beads near the antenna
mounting
> plate as suggested by others helped?
>
> I've used Delta-4 switches with other antennas and have never seen
the
> SWR affected merely by connecting the switch.
>
> Thanks for any thoughts.
>
> Steve
> K0PQ

2429. Re: [hex-beam] 5-band HexBeam and Delta-4 coax switch

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-24 15:16:56 UTC
From: Mike Van Winkle
Topic: 2426 Message: 2429

Steve, You are seeing the results many have had on
hexbeams and other antennae that do not represent as
perfectly resonant match.(not that anything really
ever does!) To install,the switch you are adding the
switch itself,as well as the additional length of the
jumper, Which doesn't change the match at the
antenna,however changes how your swr bridge sees the
reflected waves from the antenna. Solving this problem
requires proper feed line lenghts (quarter wave
multiples to properly tune each band one at a time.
SOUNDS LIKE THIS IS NOT BEING DONE ON THE HEX BEAM due
to the myriad of swr questions I keep seeing pop up.
Once a resonant lenght of line is placed ant the
antenna is PROPERLY tuned then any length of line can
replace the resonant line and the SWR will not change
enough to matter.
Kc4jmh Mike
--- k0pqstevebanks <sbanks2571@...> wrote:
>
>
> Hello Everyone,
>
> I recently finished the installation of a new 5-band
> (20m-10m) Hex and
> have measured its SWR across all bands with my MFJ
> 259B meter. All
> SWRs appear quite "normal," ranging from about 2.5
> down to 1.5
> depending on the band and frequency being measured.
> I find that
> connecting the test meter directly to the shack
> feedline connector
> yields pretty good results as noted above.
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> However, when measured through a Delta-4 coaxial
> switch, the Hex SWRs
> are considerably higher, in the range of 6.0-8.0,
> instead of 2.5 to 1.5.
>
> Has anyone else had similar experiences with a
> Delta-4 coax switch
> connected between the Hex feedline and a test meter
> or transceiver?
> If so, has the installation of Amidon beads near the
> antenna mounting

> plate as suggested by others helped?
>
> I've used Delta-4 switches with other antennas and
> have never seen the
> SWR affected merely by connecting the switch.
>
> Thanks for any thoughts.
>
> Steve
> K0PQ
>
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>

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2430. Re: 5-band HexBeam and Delta-4 coax switch

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-25 01:44:34 UTC
From: w4wb
Topic: 2426 Message: 2430

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@y...>
wrote:
>
Mike,

FWIW, the SWR is the same at any point along the feed line if you
don't have a common-mode current on the outside of your shield. A
simple test is to see if the SWR of your antenna system changes at,
say the transmitter, whenyou change the length of the feed line. If
it does change, the common-mode matter should be addressed.

73,
Barry W4WB

> Steve, You are seeing the results many have had on
> hexbeams and other antennae that do not represent as
> perfectly resonant match.(not that anything really
> ever does!) To install,the switch you are adding the
> switch itself,as well as the additional length of the
> jumper, Which doesn't change the match at the
> antenna,however changes how your swr bridge sees the
> reflected waves from the antenna. Solving this problem
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> to the myriad of swr questions I keep seeing pop up.
> Once a resonant lenght of line is placed ant the
> antenna is PROPERLY tuned then any length of line can
> replace the resonant line and the SWR will not change
> enough to matter.
> Kc4jmh Mike
> --- k0pqstevebanks <sbanks2571@a...> wrote:
> >

2431. Re: New Operator Homebrew help

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-25 05:44:33 UTC
From: geocom98
Topic: 2425 Message: 2431

Thanks for the responses I have recieved I have gone ahead and ordered
the spreaders (bamboo basspro shop 14ft bamboo rods $3.97)
for a final build in the meantime I went ahead and built one using PVC
since I had it one hand and since I am impatient and like to
experiiment with antennae. The construction results using PVC were
shakey at best but as I added all of the elements 20-6 meters it
became much more sound the whole thing wieghs about 17-20 pounds that
is using 1/2 inch PVC and number 12 wire with a 3/8 plywood hub..
I have not yet had the opportunity to test but I have my fingers
crossed for good results.. Next I will begin on the permanent version
but I think that I will keep the PVC version for portable and field
day use...

73 and thanks again for all the responses and solid information

kc0ahe

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
>
> Hello KC0AHE,
> I have not seen a design for 20-6m with own 6 m elements.
> But the 5 bander 20-10m has a SWR of less than 1:2 between 50-54 MHz.
> I'm not working on 6m so I don't know if there is much gain or V/R.
> The height of the center hub of the 5 bander is about 1,10m.
> PVC is not problem for the center hub. Try to find any UV-resistant
> material or paint it. If you use PVC and you will paint it it helps
> to rough up the surface with sand paper before painting.
> regards Holger
> --- In hex-beam@yahoogroups.com, "geocom98" <geocom98@y...> wrote:
> >
> >
> > Hello everyone
> >
> > Let me start by saying what a great group this is
> > excellent information. I have a couple of questions
> > that I have not found the answers to maybe they are trivial
> > but here goes I was curious about the height of the
> > center mast that the elements connect to I am planning on building
> > a 20-6 meter version and was just curious if anyone had the
> measurements
> >
> > Also I was wondering if PVC could be used I know I saw that question
> > asked somewhere but I did not see the answer. I have a feeling that
> > the added weight of PVC over fibreglass or bamboo would an adverse
> > affect on the overall life of the antenna at any rate thanks again
> for

```
> > a great group
> >
> > Respectfully,
> > kc0ahe
```

2432. Re: [hex-beam] 5-band HexBeam and Delta-4 coax switch

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-25 06:53:14 UTC
From: Mike/k1eg
Topic: 2426 Message: 2432

This post raises a question in my mind. If you use a single feed on a 20 - 10 meter hex do you want a multiple of one of the bands for your feedline?

73,
Mike/K1EG

----- Original Message -----
From: "Mike Van Winkle" <janmike2001@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, April 24, 2005 10:16 AM
Subject: Re: [hex-beam] 5-band HexBeam and Delta-4 coax switch

>
>
> Steve, You are seeing the results many have had on
> hexbeams and other antennae that do not represent as
> perfectly resonant match.(not that anything really
> ever does!) To install,the switch you are adding the
> switch itself,as well as the additional length of the
> jumper, Which doesn't change the match at the
> antenna,however changes how your swr bridge sees the
> reflected waves from the antenna. Solving this problem
> requires proper feed line lenghts (quarter wave
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> SOUNDS LIKE THIS IS NOT BEING DONE ON THE HEX BEAM due
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> Once a resonant lenght of line is placed ant the
> antenna is PROPERLY tuned then any length of line can
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> Kc4jmh Mike
> --- k0pqstevebanks <sbanks2571@...> wrote:
> >
> >
> > Hello Everyone,
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> > I recently finished the installation of a new 5-band
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> > switch, the Hex SWRs
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> > I've used Delta-4 switches with other antennas and
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> > SWR affected merely by connecting the switch.
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> > Thanks for any thoughts.
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> > Steve
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> _____
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2433. Spreaders from telescope fiberglass fishing pole and source

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-25 12:05:17 UTC
From: Kevin Adam
Topic: 2425 Message: 2433

The other day I was in a sportsman store called Gander mountain and they have fiberglass fishing poles that telescope different sizes up 20 feet these would work okay but the cost if your penny pitching is a little high come to dollar a foot per pole, but they were nice fishing pole would make good hex beam, from them up to the last 4 feet that is to flexible.
N9IWW

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of geocom98
Sent: Monday, April 25, 2005 12:45 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: New Operator Homebrew helps

Thanks for the responses I have recieved I have gone ahead and ordered the spreaders (bamboo basspro shop 14ft bamboo rods $3.97)
for a final build in the meantime I went ahead and built one using PVC since I had it one hand and since I am impatient and like to experiiment with antennae. The construction results using PVC were shakey at best but as I added all of the elements 20-6 meters it became much more sound the whole thing wieghs about 17-20 pounds that is using 1/2 inch PVC and number 12 wire with a 3/8 plywood hub..
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73 and thanks again for all the responses and solid information

kc0ahe

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>
> Hello KC0AHE,
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> But the 5 bander 20-10m has a SWR of less than 1:2 between 50-54 MHz.
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> The height of the center hub of the 5 bander is about 1,10m.
> PVC is not problem for the center hub. Try to find any UV-resistant
> material or paint it. If you use PVC and you will paint it it helps
> to rough up the surface with sand paper before painting.
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> --- In hex-beam@yahoogroups.com, "geocom98" <geocom98@y...> wrote:
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> >
> > Hello everyone

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> > Let me start by saying what a great group this is
> > excellent information. I have a couple of questions
> > that I have not found the answers to maybe they are trivial
> > but here goes I was curious about the height of the
> > center mast that the elements connect to I am planning on building
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> > Also I was wondering if PVC could be used I know I saw that question
> > asked somewhere but I did not see the answer. I have a feeling that
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> > affect on the overall life of the antenna at any rate thanks again
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> > a great group
> >
> > Respectfully,
> > kc0ahe

Yahoo! Groups Links

2434. Re: 5-band HexBeam and Delta-4 coax switch

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-25 17:43:26 UTC
From: w4wb
Topic: 2426 Message: 2434

Mike,

Pse see my comments in message 2430.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Mike/k1eg" <k1eg@m...> wrote:
> This post raises a question in my mind. If you use a single feed on
a 20 -
> 10 meter hex do you want a multiple of one of the bands for your
feedline?
>
> 73,
> Mike/K1EG

2435. RFI and TVI..on HEX....I need help my Friends..

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-25 21:35:31 UTC
From: Paulo
Topic: 2435 Message: 2435

Hi My friends..

I am so happy with performance of the HEXbeam..wish it was all hapiness, but unfortunely it is not..i am a lot of complaints from neighbours, when i TX with the HEX some of them cama and knock in my door..
The antenna is at 21 meters from the roof (70 feet) .you can see my photos.
I have the torroids from amidon just under the plate..it seems the HEX is radiating down a lot of RF instead to the atmosphere..

Does any one of you my friends..can help me to solve the problem,plsss!!!

I am really tired onf this situation.
I have a Low Pass Filter from Kenwood 1KW
2 Line isolaters.
1 Commom mode Filter in the back of my amplifier : Ameritron 800
New Coax Type L400..

Do you know any product that you can tell to me so i will be sure its not my problem..Whatever it costs ..so i can have some peace of mind..pls.
Please Help me.....other wise i might have to go to a Multiband rotary dipole..but i like so much my hex beam..even today i fight on Big..Big..pile up lots of EU stations on 20 meters with Guam AH2..many guys usinf TH7/11..Force12..and i 2nd call he was answering to me !!! I want to keep my hexbeam..!!!
Pls guys you help so much in the past ..i need you help now..i am very sad with this problem of HEX....

Your Friend
Paulo
Best Regards.

CT1ITZ
Paulo

2436. RFI and TVI..on HEX....I need help my Friend help information

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-25 22:19:44 UTC
From: Kevin Adam
Topic: 2435 Message: 2436

Paulo please go check all your coax for rf leaks since your higher you must have added more coax you are most like have the shield leak at the connector. The best way to check for rf is with signal strength meter have another person key radio place the signal meter next to the coax connector you will find that there is leak from bad solder connection where the shield is connected to the connector please try this it should help the best way is to have solid piece of coax to antenna from radio to antenna no breaks or add on pieces.

N9IWW
Kevin Adam

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of Paulo
Sent: Monday, April 25, 2005 4:36 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] RFI and TVI..on HEX....I need help my Friends..

Hi My friends..

I am so happy with performance of the HEXbeam..wish it was all hapiness, but unfortunely it is not..i am a lot of complaints from neighbours, when i TX with the HEX some of them cama and knock in my door..
The antenna is at 21 meters from the roof (70 feet) .you can see my photos.
I have the torroids from amidon just under the plate..it seems the HEX is radiating down a lot of RF instead to the atmosphere..

Does any one of you my friends..can help me to solve the problem,plsss!!!

I am really tired onf this situation.
I have a Low Pass Filter from Kenwood 1KW
2 Line isolaters.
1 Commom mode Filter in the back of my amplifier : Ameritron 800
New Coax Type L400..

Do you know any product that you can tell to me so i will be sure its not my problem..Whatever it costs ..so i can have some peace of mind..pls.
Please Help me.....other wise i might have to go to a Multiband rotary dipole..but i like so much my hex beam..even today i fight on Big..Big..pile up lots of EU stations on 20 meters with Guam AH2..many guys usinf TH7/11..Force12..and i 2nd call he was answering to me !!! I want to keep my hexbeam..!!!

Pls guys you help so much in the past ..i need you help now..i am very sad with this problem of HEX....

Your Friend
Paulo
Best Regards.

CT1ITZ
Paulo

Yahoo! Groups Links

2437. Interfrences from HEXbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-26 23:31:28 UTC
From: Paulo
Topic: 2437 Message: 2437

Dear friends
I have a choke just under the Hub of the antenna with 6-8 torroids advised by the Hexbeam group..., can i add a balun..with 8 turns after that one??
Will it be harmull???

Please help me on this,...do you think the coax box switch remote control may cause problems too???
Hoping to hear from you my friends..Doug..Barry..Holger..Kevin..Duke....
Best 73´s

Paulo
Ct1iTZ

2438. Re: [hex-beam] Interfrences from HEXbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-27 01:28:33 UTC
From: Bill Metzger
Topic: 2437 Message: 2438

Paulo,

I've read all your postings and the good information posted by others. Quite honestly, I am puzzled by your RFI problems. Your newest message notes a coax box switch. In looking at your photos I see some sort of a large element directly under the Hexbeam and what looks like a balun and other stuff right below the hexbeam. I'm not sure but could all this other equipment and wiring be picking up some RFI and re-transmitting it creating the RFI in your neighbors home? If you have another antenna mounted just below the Hexbeam (looks like you do) that may be the problem. I would suggest you make a clean hookup, direct from the Hexbeam (using the torroid chokes etc.) directly to your transmitter/amplifier and see what happens. Also, you might want to ground the other antenna when you are not using it. I have used several antennas over the past two years and found the Hexbeam to be virtually RFI free compared to the others. Of all the messages on this reflector, you seem to have the only RFI problem.

Good luck.

Bill KF0OH
----- Original Message -----
From: Paulo
To: hex-beam@yahoogroups.com
Sent: Tuesday, April 26, 2005 6:31 PM
Subject: [hex-beam] Interfrences from HEXbeam

Dear friends
I have a choke just under the Hub of the antenna with 6-8 torroids advised by the Hexbeam group..., can i add a balun..with 8 turns after that one??
Will it be harmull???

Please help me on this,...do you think the coax box switch remote control may cause problems too???
Hoping to hear from you my friends..Doug..Barry..Holger..Kevin..Duke....
Best 73´s

Paulo
Ct1iTZ

Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2439. Re: RFI and TVI..on HEX....I need help my Friends..

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-27 06:55:42 UTC
From: lz2be
Topic: 2435 Message: 2439

Hi Paulo,

by changing height of your Hex you increased also the lenght of
rotator cable and it is possible the TVI are caused by radiation
from this cable. I would suggest you to wound 8-10 turns through a
big toroid. The most important thing is permeability to be 1500-2500!

Your cables are secured to the mast by plastic ties. Try to add few
more ties from naked wire - this is a short circuit to radio waves.

I don't see on the roofs TV antennas - it looks you have cable-TV
network (the same is with me). Those cables also may act as antenna.
The only solution is to find some big toroid (diameter big enough to
pass 8-10 turns of TV-cable through it). You should go to your
neighbour, unplug TV cable from TV, pass the cable trough the toroid
few times and connect it back to TV. I did this with two of my
neighbours + my one of my own TV's (hi..hi) and everybody is happy!
Even you can prepare before visit such a filter.
Take a toroid, pass few turns of small coax through it and install
TV connectors (male and female) on both sides. Later you need just
to install this filter between TV and coax cable of your neighbour.

I hope this will help.

73 Boyan LZ2BE

--- In hex-beam@yahoogroups.com, "Paulo" <paulo.paixao@n...> wrote:
>
> Hi My friends..
>
> I am so happy with performance of the HEXbeam..wish it was all
> hapiness, but unfortunely it is not..i am a lot of complaints from
> neighbours, when i TX with the HEX some of them cama and knock in
my
> door..
> The antenna is at 21 meters from the roof (70 feet) .you can see
my
> photos.
> I have the torroids from amidon just under the plate..it seems the
> HEX is radiating down a lot of RF instead to the atmosphere..
>
> Does any one of you my friends..can help me to solve the
> problem,plsss!!!
>
> I am really tired onf this situation.
> I have a Low Pass Filter from Kenwood 1KW

> 2 Line isolaters.
> 1 Commom mode Filter in the back of my amplifier : Ameritron 800
> New Coax Type L400..
>
> Do you know any product that you can tell to me so i will be sure
> its not my problem..Whatever it costs ..so i can have some peace
of
> mind..pls.
> Please Help me.....other wise i might have to go to a Multiband
> rotary dipole..but i like so much my hex beam..even today i fight
on
> Big..Big..pile up lots of EU stations on 20 meters with Guam
> AH2..many guys usinf TH7/11..Force12..and i 2nd call he was
> answering to me !!! I want to keep my hexbeam..!!!
> Pls guys you help so much in the past ..i need you help now..i am
> very sad with this problem of HEX....
>
> Your Friend
> Paulo
> Best Regards.
>
> CT1ITZ
> Paulo

2440. Stacked Antennas - HB and VHF/UHF

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-28 18:32:29 UTC
From: wv8aa
Topic: 2440 Message: 2440

I haven't found the exact answer in the archives, but I do know that HBs can be stacked. Here's my story; what advice do you have for me? BTW, I haven't spent any money yet, but Dayton is on the horizon:)

In the 80's I had a tri-band yagi and the mast went up through the antenna. So I added a 2-meter vertical at the top of the mast and life was good. Then I moved, took down the tower, beam and all; I actually left the hobby for several years.

So my question is how do I accomplish the same type of stacking with an HB and a multi-band VHF/UHF vertical? None of the pictures I've seen provide an answer. One set of pics did have a pair of HBs stacked with two more HBs on individual arms. The stacked pair looked like the lower one was offset a few inches and the mast went parallel to the central core of the HB.

Thanks for your help and ideas here.

73
--Andy
WV8AA

2441. 40 - 30 m hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-04-30 10:37:51 UTC
From: Van Aert Chris
Topic: 2441 Message: 2441

Hi,
Maybe Holger isn't at home but can someome help me to give the distance between the wireelements of 40 and 30 meterband.
I read at the files about 100cm but is this ok?
Is the feedingpoint on 155 cm and is the distance between the feedingpoint and the the 40m elements 4,5cm.
I want to know this before i go build this hex.
TNX
73 - Chris - ON4CGY

2442. W4RT Electronics at Hamvention

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-11 16:44:53 UTC
From: w4wb
Topic: 2442 Message: 2442

W4RT Electronics will be at Hamvention 2005 in Dayton 20-22 May. The Booth Numbers are 114-115. In addition to having the variety of W4RT products, we will also be the Official LDG Electronics Hamvention Headquarters ... lots of tuners and other goodies plus new items!

There is going to be very interesting special pricing on many items, so come early to the booths in order not to be disappointed because we have sold out of what you want. The pricing is for purchases made at the Hamvention only.

For the first time, W4RT will offer at Dayton DIY kits to install our famous One Board Filter (OBF) in the FT-817, IC-703, and IC-718. The OBF contains a 7-pole 500 Hz and a 10-pole 2300 Hz Collins Mechanical Filter. Now you don't have to decide which filter to install, you can have both! Single Collins Mechanical Filters for the FT-817,FT-857, FT-897, IC-703, and IC-718 will also be available. If you are in the market for these filters, be sure to stop by and check out our filter prices before you buy.

Another new item for Dayton is the MAX PUNCH Module which contains the widely-used W4RT One BIG Punch speech compressor and the highly-acclaimed Heil HC-4 and HC-5 elements. This is a DIY kit for the Yaesu MH-31 microphone that is typically used with such radios the FT-817, FT-857, and FT-897. Want to improve your TALK POWER and bust those pile ups? Then the MAX Punch Module is a great choice!

You can also pick up a bhi, Ltd. DSP module for your FT-817, IC-706, TS-50, etc. at the W4RT Electronics booths. This is arguably the single most important add-on to your radio you can make. This DSP doesn't use the common signal processing methods used by others, but instead employs modern dynamically-adaptive neural-network technology to achieve noise and tone reduction that is remarkably more impressive than other noise reduction technologies available for the FT-817, IC-706, TS-50, and other radios.

See you at the Hamvention!

73,
The W4RT Electronics Team
Barry W4WB
Bob N4BK
Ralph N5DOI
Rudd W4TCD
Michael AB4MT

2443. Traffie Technologies at Hamvention

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-11 16:46:30 UTC
From: w4wb
Topic: 2443 Message: 2443

Mike Traffie will have a booth at the Hamvention. Drop by and talk with him ... maybe even take a new Hex-Beam home with you!

2444. HEXRFIBEAM... CAN SOMEONE SOLVE THIS ENIGMA????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-16 23:25:53 UTC
From: Paulo
Topic: 2444 Message: 2444

I would like you to let you know one detail..one of the neighbours that just complaint to me, because he is always at the window , he is unemployed.
He said while i had the Hexbeam over my terrace for 10 days,,and i was going upstairs, to change the direction by hand..from North to East .. (it is true), after i had made many calls, on those 10 days withe the hex over the terrace ..no interference.

After 10 when i put the antenna higher 21 meters, all change..
Can it be from the rotary dipole, they are make interaction, puting this TVI???

On those days i did not have :
2) rotor and its cable;
3)Rotary dipole;
4)Remote coax switch.

Can anybody solve this ENIGMA?? Please....

2445. HEAXRFITVIBEAM: BYE THE NEW MODEL ..BE HAPPY NOW!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-17 23:22:27 UTC
From: Paulo
Topic: 2445 Message: 2445

Hi Bill and Company.....

Thank you for your message , wich i do not agree..i wish that was true....the heaxbeam is not RFI free...sorry but is not true..when i had rotary dipole 40..12..17..and 10 i ver interfer in those neigbours, they told last night...now with the hex beam..i am the target from many neighbours,,why????
If it is RFI free you should than tell me....may be mine came with defect..the only i suspect is that she is interacting with the rotary dipole..butnobody knows nothing..even the manufacturer MR.Mike told to me to test and see the results...why is not advertise that this antena is not good for buildings like mine..
Peter Pan and Bamby Story are nice ..but some of your reports, reaally upset me..
Where do you live ...Are you QRP...???
Please do not advertise that Heax beam is RFI..amd TVI free...that is NOT TRUE...
I have been living this nightmeare of RFI and TVI and BCI thought Heax would solve but it make it worst..even with 100 watts i neterfere in many people ..may bee BIll you tell us the miraclefor TVI and BCI and RFI free.

Dreaming is nice ..but this forum is not the best place to..here is to say the reality..but listen i love my heax beam in Performance i do not chnge for any yaggy..i beat the on pile ups easely...so may be this is good to put in a farm..not in town,,where we have aq lot of apartments..
I ask many times MIke about RFI and TVI of Heaxbeam..he did not know ?????
Now if he was an honesty person he should advertise in the technical details: THIS ANTENNA IS VERY SENNSITY AND EASY TO CREATE TVI IN NEIGBOURS.....

I am very dissapointed with MIke atitude..he just don´t care about my problemas of RFI...or he does not know about this subject??????

Best 73´s
Paulo
CT1ITZ

2446. Re: [hex-beam] HEXRFIBEAM... CAN SOMEONE SOLVE THIS ENIGMA????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-17 08:48:53 UTC
From: Pieter & Petro Du Toit
Topic: 2444 Message: 2446

easy remove all the stuff start over ,for get remote coax switch , rur hex beabm al alone
73 zs1pdt
----- Original Message -----
From: Paulo
To: hex-beam@yahoogroups.com
Sent: Tuesday, May 17, 2005 11:25 AM
Subject: [hex-beam] HEXRFIBEAM... CAN SOMEONE SOLVE THIS ENIGMA????

I would like you to let you know one detail..one of the neighbours
that just complaint to me, because he is always at the window , he is
unemployed.
He said while i had the Hexbeam over my terrace for 10 days,,and i was
going upstairs, to change the direction by hand..from North to East ..
(it is true), after i had made many calls, on those 10 days withe the
hex over the terrace ..no interference.

After 10 when i put the antenna higher 21 meters, all change..
Can it be from the rotary dipole, they are make interaction, puting
this TVI???

On those days i did not have :
2) rotor and its cable;
3)Rotary dipole;
4)Remote coax switch.

Can anybody solve this ENIGMA?? Please....

Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2447. Re: [hex-beam] HEAXRFITVIBEAM: BYE THE NEW MODEL ..BE HAPPY NOW!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-18 07:36:54 UTC
From: Mike/k1eg
Topic: 2445 Message: 2447

Paulo, I think you are going to far this time! Mike cannot control your TVI problem. It is very clear from your posting that the whole problem is your neighbors buying cheap TV's with no filtering in them. Neither he nor any other manufacturer can tell you if you will have TVI problems or not. It is all based on what your neighbors buy and how good a radio you use. You have had nothing but complaints about the hex beam since you bought it. Infact people had to go to your QTH to get it working for you which clearly shows you have little understanding of Amateur Radio and Electronics.

Instead of complaining please sell it to a ham that knows how to use it correctly rather than bashing the manufacturer. Failing that move to the country where you will bother nobody. Sorry to be so hard on you but this is getting old.

73,
Mike/K1EG

----- Original Message -----
From: "Paulo" <paulo.paixao@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, May 17, 2005 6:22 PM
Subject: [hex-beam] HEAXRFITVIBEAM: BYE THE NEW MODEL ..BE HAPPY NOW!!

Hi Bill and Company.....

Thank you for your message , wich i do not agree..i wish that was true....the heaxbeam is not RFI free...sorry but is not true..when i had rotary dipole 40..12..17..and 10 i ver interfer in those neigbours, they told last night...now with the hex beam..i am the target from many neighbours,,why????
If it is RFI free you should than tell me....may be mine came with defect..the only i suspect is that she is interacting with the rotary dipole..butnobody knows nothing..even the manufacturer MR.Mike told to me to test and see the results...why is not advertise that this antena is not good for buildings like mine..
Peter Pan and Bamby Story are nice ..but some of your reports, reaally upset me..
Where do you live ...Are you QRP...???
Please do not advertise that Heax beam is RFI..amd TVI free...that is NOT TRUE...
I have been living this nightmeare of RFI and TVI and BCI thought Heax would solve but it make it worst..even with 100 watts i neterfere in many people ..may bee BIll you tell us the miraclefor TVI and BCI and RFI free.

Dreaming is nice ..but this forum is not the best place to..here is to say the reality..but listen i love my heax beam in Performance i do not chnge for any yaggy..i beat the on pile ups easely...so may be this is good to put in a farm..not in town,,where we have aq lot of apartments..
I ask many times MIke about RFI and TVI of Heaxbeam..he did not know ?????
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I am very dissapointed with MIke atitude..he just don?t care about my problemas of RFI...or he does not know about this subject??????

Best 73?s
Paulo
CT1ITZ

Yahoo! Groups Links

2448. Re: [hex-beam] HEAXRFITVIBEAM: BYE THE NEW MODEL ..BE HAPPY NOW!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-18 15:06:28 UTC
From: Bob
Topic: 2445 Message: 2448

Hi Paolo,

I think TVI/RFI is not because you use Hexbeam, it may happen with any antenna. Electromagnetic field is so strong near your antenna, so every wire or cable, long enough could act as another antenna and to create RFI.
Please read again my message #2439 in yahoo group from 27 Apr and try what I'm suggesting for TV chocks (traps). Believe me I had the same problem and I solved them by this way. Toroids used are with permeability 2000, dimensions 48 x 28 x 12 mm - big enough to pass few times 7mm TV coax cable through.

Please follow this link http://www.arrl.org/tis/info/HTML/catvi/index.html and look at figure 7.11 and 7.12 to see what I mean.

73! Boyan LZ2BE

Paulo <paulo.paixao@...> wrote:
Hi Bill and Company.....

Thank you for your message , wich i do not agree..i wish that was true....the heaxbeam is not RFI free...sorry but is not true..when i had rotary dipole 40..12..17..and 10 i ver interfer in those neigbours, they told last night...now with the hex beam..i am the target from many neighbours,,why????
If it is RFI free you should than tell me....may be mine came with defect..the only i suspect is that she is interacting with the rotary dipole..butnobody knows nothing..even the manufacturer MR.Mike told to me to test and see the results...why is not advertise that this antena is not good for buildings like mine..
Peter Pan and Bamby Story are nice ..but some of your reports, reaally upset me..
Where do you live ...Are you QRP...???
Please do not advertise that Heax beam is RFI..amd TVI free...that is NOT TRUE...
I have been living this nightmeare of RFI and TVI and BCI thought Heax would solve but it make it worst..even with 100 watts i neterfere in many people ..may bee BIll you tell us the miraclefor TVI and BCI and RFI free.

Dreaming is nice ..but this forum is not the best place to..here is to say the reality..but listen i love my heax beam in Performance i do not chnge for any yaggy..i beat the on pile ups easely...so may be this is good to put in a farm..not in town,,where we have aq lot of apartments..
I ask many times MIke about RFI and TVI of Heaxbeam..he did not know ?????

Now if he was an honesty person he should advertise in the technical details: THIS ANTENNA IS VERY SENNSITY AND EASY TO CREATE TVI IN NEIGBOURS.....

I am very dissapointed with MIke atitude..he just don#1169;t care about my problemas of RFI...or he does not know about this subject??????

Best 73#1169;s
Paulo
CT1ITZ

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To unsubscribe from this group, send an email to:
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Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Do you Yahoo!?
Yahoo! Mail - You care about security. So do we.

[Non-text portions of this message have been removed]

2449. Been a while...

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-18 22:49:01 UTC
From: Jason Hissong
Topic: 2449 Message: 2449

Hi guys,

It has been a while since I last posted.. not been really active on HF lately. I have been doing a bunch of astronomy stuff (www.undermidnight.com for pictures and stuff). But I still have my hexbeam and it still performs very well for me.

Anyways.. hope everyone is doing well.. would love to set up a sched sometime soon..

73 de Jason N8XE

2450. RE: Hex Beam Help

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-19 02:46:13 UTC
From: k9ge
Topic: 2450 Message: 2450

Hi Everbody, sorry about not replying earlier, but I've been laid up for awhile. I want to thank all who replied to my plea for(msg.2419) help with my home brew beam for 17 mtrs. I finally found my problem. in constructing the center post connection points, I had used a long automotive finger type magnet to lower the screws/washers down into the pvc pipe and into the holes (3) I had drilled for the 2 coax connection points and 1 for the screw eye for the center of the reflector. Somehow one of the washers came off of one of the screws and was now magnetized and was making contact between the director and one side of the coax screw. I reasoned that this was why I couldn't get the ant. to resonate above about 17.6 mhz. which was my original problem. I've now have the antenna to resonate at 18.140 mhz. with a swr of 1.5-1 on my mfj 259b, 1.4-1 on my yaesu mk 5 and 1.3-1 on my ys-60, presently I've got the antenna at about 20 ft. It as good as my Dipole at 55 ft. but I expected it to be much better and
am a little disappointed especially the front to back ratio, I realize the tip distances affects this, but I've tried every combination I can think of. I purchased 4 tooth brushes at the dollar store, 2 fluorescent orange and used these for th 5.6" tip spacing of the director and purple colored for the 3.5" tip spacing of the reflector, drilled 3/16 " holes about 1/2" apart for easy adjustment, the orange really helps in seeing the direction the beam is pointing. I've been on 17 everday for about two weeks now and have yet run into anyone running a hex beam. Sure would like to compare notes with someone on the air. I've added 12 mtrs to the beam today, but haven't got it tuned yet. I've been reading about Paulo's TVI problem, I don't agree with all his remarks' but in his defense, I find a very prominent dip at about 55 mhz (about the video carrier for ch.2 55.125 mhz) for whatever that's worth. Again THANKS a bunch for those who sent replys, and Barry it was nice talking to you on the phone. 73's all and Best Regards. Harold - K9ge
PS: I've sent VK2DPD 2 emails with no answers yet, is he still active ? Anyone ?

2451. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-19 09:21:55 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 2451

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /DL7IO/Problem-FB-on-17m-K9GE.pdf
Uploaded by : dl7io <dl7io@...>
Description : simulation of a 17m antenna in free space, over reals ground with dieffernt heights and take off angels.

You can access this file at the URL:
http://groups.yahoo.com/group/hex-beam/files/DL7IO/Problem-FB-on-17m-K9GE.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

dl7io <dl7io@...>

2452. Re: [hex-beam] HEAXRFITVIBEAM: BYE THE NEW MODEL ..BE HAPPY NOW!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-20 00:44:56 UTC
From: Mike/k1eg
Topic: 2445 Message: 2452

Paulo you mentioned that when you turned the beam by hand you had no problems. That made me think about something and this maybe your problem. Your rotor cable could be causing the problem you need to check this out. http://thewireman.com/rotatorline.html

73,
Mike/K1EG

2453. Re: [hex-beam] HEAXRFITVIBEAM: BYE THE NEW MODEL ..BE HAPPY NOW!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-18 19:48:00 UTC
From: Richard Allix
Topic: 2445 Message: 2453

Hi all, well I hope Paulo is dead wrong 'cause I'm off to Dayton tonight
to see the Traffie gang and see what I can afford. 73, Richard ve2arw.

At 11:06 AM 5/18/2005, you wrote:
>Hi Paolo,
>
>I think TVI/RFI is not because you use Hexbeam, it may happen with any
>antenna. Electromagnetic field is so strong near your antenna, so every
>wire or cable, long enough could act as another antenna and to create RFI.
>Please read again my message #2439 in yahoo group from 27 Apr and try what
>I'm suggesting for TV chocks (traps). Believe me I had the same problem
>and I solved them by this way. Toroids used are with permeability 2000,
>dimensions 48 x 28 x 12 mm - big enough to pass few times 7mm TV coax
>cable through.
>
>Please follow this link
><http://www.arrl.org/tis/info/HTML/catvi/index.html>http://www.arrl.org/tis/info/HTML/cat
vi/index.html
>and look at figure 7.11 and 7.12 to see what I mean.
>
>73! Boyan LZ2BE
>
>Paulo <paulo.paixao@...> wrote:
>Hi Bill and Company.....
>
>Thank you for your message , wich i do not agree..i wish that was
>true....the heaxbeam is not RFI free...sorry but is not true..when i
>had rotary dipole 40..12..17..and 10 i ver interfer in those
>neigbours, they told last night...now with the hex beam..i am the
>target from many neighbours,,why????
>If it is RFI free you should than tell me....may be mine came with
>defect..the only i suspect is that she is interacting with the
>rotary dipole..butnobody knows nothing..even the manufacturer
>MR.Mike told to me to test and see the results...why is not
>advertise that this antena is not good for buildings like mine..
>Peter Pan and Bamby Story are nice ..but some of your reports,
>reaally upset me..
>Where do you live ...Are you QRP...???
>Please do not advertise that Heax beam is RFI..amd TVI free...that
>is NOT TRUE...
>I have been living this nightmeare of RFI and TVI and BCI thought
>Heax would solve but it make it worst..even with 100 watts i
>neterfere in many people ..may bee BIll you tell us the miraclefor
>TVI and BCI and RFI free.

>
>Dreaming is nice ..but this forum is not the best place to..here is
>to say the reality..but listen i love my heax beam in Performance i
>do not chnge for any yaggy..i beat the on pile ups easely...so may
>be this is good to put in a farm..not in town,,where we have aq lot
>of apartments..
>I ask many times MIke about RFI and TVI of Heaxbeam..he did not
>know ?????
>Now if he was an honesty person he should advertise in the technical
>details: THIS ANTENNA IS VERY SENNSITY AND EASY TO CREATE TVI IN
>NEIGBOURS.....
>
>I am very dissapointed with MIke atitude..he just don#1169;t care about
>my problemas of RFI...or he does not know about this subject??????
>
>Best 73#1169;s
>Paulo
>CT1ITZ
>
>
>
>
>
>----------
>Yahoo! Groups Links
>
> To visit your group on the web, go to:
><http://groups.yahoo.com/group/hex-beam/>http://groups.yahoo.com/group/hex-beam/
>
> To unsubscribe from this group, send an email to:
>hex-beam-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
>
>----------
>Do you Yahoo!?
>Yahoo! Mail - You care about security. So do we.
>
>[Non-text portions of this message have been removed]
>
>
>
>----------
>Yahoo! Groups Links
> * To visit your group on the web, go to:
> *
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>

> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>hex-beam-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2454. Looking for used HX5bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-21 16:07:11 UTC
From: Dana Luke
Topic: 2454 Message: 2454

I'm looking to buy a used 5 band Hexbeam. If anyone hears of one on the market, please let me know!

My contact information is:
email: ka1pk@...
phone: 207-807-2412

Thanks,

Dana KA1PK
ka1pk@...

2455. Re: [hex-beam] HEAXRFITVIBEAM: BYE THE NEW MODEL ..BE HAPPY NOW!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-18 17:26:52 UTC
From: John Lepire
Topic: 2445 Message: 2455

paulo i agree with mike , if they all have no tvi with there antennas and they all agree and your the only one who disagrees id say what is it when the whole world says yes and you say no , are they right or are you the only one in the world who is right . if your radio , local tvs , and hiuse wireing are cheap then you get what you pay for . in our country they have to put proper filters on the tvs to sell them try to get your country to do this .
fact also , no matter how hard you try and you should try there are gonna be neighbors who will see your antenna and blame you for interfeance the other nighbor haior dryer makes ;-) . and fact is there will be some who you can satisfy and there are gonna be a few who you cant .
the only interfeance free antenna in the world is a dummy load , i suggest you use this ;-) .
----- Original Message -----
From: Mike/k1eg
To: hex-beam@yahoogroups.com
Sent: Wednesday, May 18, 2005 2:36 AM
Subject: Re: [hex-beam] HEAXRFITVIBEAM: BYE THE NEW MODEL ..BE HAPPY NOW!!

Paulo, I think you are going to far this time! Mike cannot control your TVI problem. It is very clear from your posting that the whole problem is your neighbors buying cheap TV's with no filtering in them. Neither he nor any other manufacturer can tell you if you will have TVI problems or not. It is all based on what your neighbors buy and how good a radio you use. You have had nothing but complaints about the hex beam since you bought it. Infact people had to go to your QTH to get it working for you which clearly shows you have little understanding of Amateur Radio and Electronics.

Instead of complaining please sell it to a ham that knows how to use it correctly rather than bashing the manufacturer. Failing that move to the country where you will bother nobody. Sorry to be so hard on you but this is getting old.

73,
Mike/K1EG

----- Original Message -----
From: "Paulo" <paulo.paixao@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, May 17, 2005 6:22 PM
Subject: [hex-beam] HEAXRFITVIBEAM: BYE THE NEW MODEL ..BE HAPPY NOW!!

Hi Bill and Company.....

Thank you for your message , wich i do not agree..i wish that was true....the heaxbeam is not RFI free...sorry but is not true..when i had rotary dipole 40..12..17..and 10 i ver interfer in those

neigbours, they told last night...now with the hex beam..i am the target from many neighbours,,why????
If it is RFI free you should than tell me....may be mine came with defect..the only i suspect is that she is interacting with the rotary dipole..butnobody knows nothing..even the manufacturer MR.Mike told to me to test and see the results...why is not advertise that this antena is not good for buildings like mine..
Peter Pan and Bamby Story are nice ..but some of your reports, reaally upset me..
Where do you live ...Are you QRP...???
Please do not advertise that Heax beam is RFI..amd TVI free...that is NOT TRUE...
I have been living this nightmeare of RFI and TVI and BCI thought Heax would solve but it make it worst..even with 100 watts i neterfere in many people ..may bee BIll you tell us the miraclefor TVI and BCI and RFI free.

Dreaming is nice ..but this forum is not the best place to..here is to say the reality..but listen i love my heax beam in Performance i do not chnge for any yaggy..i beat the on pile ups easely...so may be this is good to put in a farm..not in town,,where we have aq lot of apartments..
I ask many times MIke about RFI and TVI of Heaxbeam..he did not know ?????
Now if he was an honesty person he should advertise in the technical details: THIS ANTENNA IS VERY SENNSITY AND EASY TO CREATE TVI IN NEIGBOURS.....

I am very dissapointed with MIke atitude..he just don´t care about my problemas of RFI...or he does not know about this subject??????

Best 73´s
Paulo
CT1ITZ

Yahoo! Groups Links

Yahoo! Groups Links

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[Non-text portions of this message have been removed]

2456. tvi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-18 06:48:57 UTC
From: zs1pdt
Topic: 2456 Message: 2456

Paulo, if the antenna worked good before and now have a problem it must be some you did, you will have to disconect some stuff, and chech i own HB5 B 115 which i am busy puting up here in new zealand i have used it in south africa and had no problem wil keep in touch and let you know, this is the antenna which was Bouvet Island with 3YOC Chuck Brady which did end up with me and is now here in New Zealand 73 zl1pdt/zs1pdt

2457. Status of Paulo - CT2ITZ

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-22 15:43:25 UTC
From: w4wb
Topic: 2457 Message: 2457

Folks,

It is with sincere regret that I have had to placed Paulo CT2ITZ on a NO POSTING status with this group. This is as close to BANNING as one can get.

The reason is that I monitored a pending message that contained comments about a direct email to Paulo discussing the RFI issues he has and Paulo's reply to the individual. The posting was rejected. Let it suffice to say that the content of Paulo's reply grossly violated the requirement of civility for this group.

Please feel free to attempt to help him resolve whatever problems he may have, but kindly email him directly rather than on this list.

73,
Barry W4WB
Moderator

2458. Hex Beam Up

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-23 15:10:31 UTC
From: mga620000
Topic: 2458 Message: 2458

I just posted a couple of photos of my Hexbeam which I put up after three months. They are in a folder marked WM4N. They are both there if you click on either thumbnail. For some reason, one thumbnail doesn't work for me and the slide show only shows one picture, but they both come up as full size.

I replaced a GAP Titan which stood in the same spot. Only tried a few contacts yesterday evening, but it seems to be working well. The antenna is at about 27 feet. I had to leave the bottom section of the tower off due to interference above.

So far, my reaction is that the HB is pretty good, considering its heighth. I don't believe it is hardly as good as my GAP verticle dipole on DX from my location, but it is quieter. The biggest effect I noticed is that it seems to have much better short range reception. I can hear stations in the Carolinas and Virginia (my QTH is KY) which I could't start to pick up before due to the extremely low launch angle of the Titan. If this trend continues, it looks like it might be a great compromise as a decent DX antenna along with being able to work local.

One thing I found interesting is that it seems to exhibit a lot of directivity but only on certain signals. Most signals in my first test session seemed to be the same through almost the entire beam rotation, while about 10% seemed to be really directional, with the signal falling off rapidly with only 20-30 degrees of rotation. Has anyone experienced this before?

2459. Re: [hex-beam] Hex Beam Up

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-24 09:47:32 UTC
From: Stuart Cameron
Topic: 2458 Message: 2459

Hi Mate,

My home brew Hex is at 30 feet and has very little front to back ratio but heeps of side rejection. Not sure why.
Does anyone know what may be wrong or are my dimensions out ? Vswr on all bands are under 1.5 !

----- Original Message -----
From: mga620000
To: hex-beam@yahoogroups.com
Sent: Tuesday, May 24, 2005 1:10 AM
Subject: [hex-beam] Hex Beam Up

I just posted a couple of photos of my Hexbeam which I put up after three months. They are in a folder marked WM4N. They are both there if you click on either thumbnail. For some reason, one thumbnail doesn't work for me and the slide show only shows one picture, but they both come up as full size.

I replaced a GAP Titan which stood in the same spot. Only tried a few contacts yesterday evening, but it seems to be working well. The antenna is at about 27 feet. I had to leave the bottom section of the tower off due to interference above.

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One thing I found interesting is that it seems to exhibit a lot of directivity but only on certain signals. Most signals in my first test session seemed to be the same through almost the entire beam rotation, while about 10% seemed to be really directional, with the signal falling off rapidly with only 20-30 degrees of rotation. Has anyone experienced this before?

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c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2460. Hexbeam F/B

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-05-24 18:20:40 UTC
From: dl7io
Topic: 2458 Message: 2460

Hello,
usually we have between 5-15 dB F/B in the model of the antenna. The best F/B is at the lower band edge (CW) where also the gain is best. With a F/B of about 6dB (1S-unit) it will be hard to recognize this on the band. Conditions vary a bit all the time and signal strengths are also changing. To find out the real F/B you need 2 opposite installed antennas and a switch.
I have done this with the 5 band version and found the F/B between 1-4 S-units from the same location and on the same band.
That comes to the question from Harold, K9GE and we also have to take in account the TOA (take off angel) of the antenna. Depending on the antenna height and the (for the skip needed/used) TOA the F/B may be very different again. See also the file I posted a few days ago under Files --> DL7IO.

To come to an example:
If you work on 21.400 with a big TOA of let's say 40-60° you will hardly recognize any F/B
This is one of the compromises you have to make with this antenna.
regards Holger

PS. For the homebrewers I now offer new baseplates made from a thermo-plastic polymere on my webpage (http://www.dl7io.de). This material is UV-resistant, has mechanical features like Aluminum but is easier to handle (drilling etc.).

2461. Field Day 2005

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-02 03:16:15 UTC
From: w4wb
Topic: 2461 Message: 2461

For anyone that may be in the North Alabama area during Field Day June 24-25, you are invited to drop by the Huntsville Amateur Radio Club & North Alabama DX Club Field Day site located on the Intergraph property in Madison, Alabama on I-565. The club call is K4BFT or better known as K 4 Big Fat Turkey. The clubs enter in Class 5A and K4BFT is often #1 in Class 5A and frequently finishing in the top 10 overall.

The 40-m SSB station will feature my 40-30 m Hex-Beam with expectations of helping the club's score more than normal. :-)

If you are in the area, please drop by to take a look at the Hex-Beam and the rest of the antenna farm our groups rapidly erect. It is truly quite a sight and a great example of team work. You are also welcome to operate the stations too!

If you can't visit, then please try to work us!

Tnx es 73,
Barry W4WB

2462. Re: [hex-beam] Field Day 2005

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-02 11:40:29 UTC
From: Jason Hissong
Topic: 2461 Message: 2462

Good Luck Barry! Wish I was down in your area.. I would love to see the Hexbeam in action.

73
Jason N8XE

w4wb wrote:

>For anyone that may be in the North Alabama area during Field Day June
>24-25, you are invited to drop by the Huntsville Amateur Radio Club &
>North Alabama DX Club Field Day site located on the Intergraph property
>in Madison, Alabama on I-565. The club call is K4BFT or better known
>as K 4 Big Fat Turkey. The clubs enter in Class 5A and K4BFT is often
>#1 in Class 5A and frequently finishing in the top 10 overall.
>
>The 40-m SSB station will feature my 40-30 m Hex-Beam with expectations
>of helping the club's score more than normal. :-)
>
>If you are in the area, please drop by to take a look at the Hex-Beam
>and the rest of the antenna farm our groups rapidly erect. It is truly
>quite a sight and a great example of team work. You are also welcome
>to operate the stations too!
>
>If you can't visit, then please try to work us!
>
>Tnx es 73,
>Barry W4WB
>
>

--

"A long journey starts with the first step and an understanding spouse."
http://www.undermidnight.com - astronomy and astrophotography
http://www.n8xe.com - ham radio
http://www.jasonhissong.com - electronic music composition

2463. Re: [hex-beam] Field Day 2005

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-02 18:34:02 UTC
From: Pieter & Petro Du Toit
Topic: 2461 Message: 2463

Hi Barry how about some nice photo,s of the site with all the anttena,s and the hexbeam and also the station new zealand a bit far to come for a weekend 73 de zl1pdt nz
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Thursday, June 02, 2005 3:16 PM
Subject: [hex-beam] Field Day 2005

For anyone that may be in the North Alabama area during Field Day June 24-25, you are invited to drop by the Huntsville Amateur Radio Club & North Alabama DX Club Field Day site located on the Intergraph property in Madison, Alabama on I-565. The club call is K4BFT or better known as K 4 Big Fat Turkey. The clubs enter in Class 5A and K4BFT is often #1 in Class 5A and frequently finishing in the top 10 overall.

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If you are in the area, please drop by to take a look at the Hex-Beam and the rest of the antenna farm our groups rapidly erect. It is truly quite a sight and a great example of team work. You are also welcome to operate the stations too!

If you can't visit, then please try to work us!

Tnx es 73,
Barry W4WB

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a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

b.. To unsubscribe from this group, send an email to:
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c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2464. Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-04 20:06:53 UTC
From: RFImages
Topic: 2464 Message: 2464

I was driving through Houten in the Netherlands and I saw this beam. Please click on the 4 photo links below:

http://imagehost.epier.com/30490/DSC03883ant5x7.jpg

http://imagehost.epier.com/30490/DSC03884ant5x7.jpg

http://imagehost.epier.com/30490/DSC03885ant5x7.jpg

http://imagehost.epier.com/30490/DSC03886ant5x7.jpg

This thing is huge and very impressive to say the least.

It was Saturday and no one was at the building to ask about it.

It appears to be commercially built.

Does anyone know what this is?

Thanks,

Bill

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2465. Re: [hex-beam] Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 15:46:43 UTC
From: Andy Chadwick
Topic: 2464 Message: 2465

Bill,

It's a log periodic array for HF.

73,

Andy, G3AB

RFImages wrote:
> I was driving through Houten in the Netherlands and I saw
> this beam. Please click on the 4 photo links below:
>
> http://imagehost.epier.com/30490/DSC03883ant5x7.jpg
>
> http://imagehost.epier.com/30490/DSC03884ant5x7.jpg
>
> http://imagehost.epier.com/30490/DSC03885ant5x7.jpg
>
> http://imagehost.epier.com/30490/DSC03886ant5x7.jpg
>
> This thing is huge and very impressive to say the least.
>
> It was Saturday and no one was at the building to ask about
> it.
>
> It appears to be commercially built.
>
> Does anyone know what this is?
>
>
> Thanks,
>
> Bill
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
>
> ---

> *Yahoo! Groups Links*
>
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/hex-beam/
>
> * To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
> <mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>

2466. Re: [hex-beam] Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 15:27:59 UTC
From: miaidea2001
Topic: 2464 Message: 2466

Hi,
I think are wire log periodic (LPDA)

Ciao IK6GQC Rocco
----- Original Message -----
From: RFImages
To: hex-beam@yahoogroups.com
Sent: Saturday, June 04, 2005 10:06 PM
Subject: [hex-beam] Is this a HEX Beam or a Spider or What????

I was driving through Houten in the Netherlands and I saw
this beam. Please click on the 4 photo links below:

http://imagehost.epier.com/30490/DSC03883ant5x7.jpg

http://imagehost.epier.com/30490/DSC03884ant5x7.jpg

http://imagehost.epier.com/30490/DSC03885ant5x7.jpg

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This thing is huge and very impressive to say the least.

It was Saturday and no one was at the building to ask about
it.

It appears to be commercially built.

Does anyone know what this is?

Thanks,

Bill

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c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2467. RE: [hex-beam] Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 15:40:10 UTC
From: Buck - N4PGW
Topic: 2464 Message: 2467

I have seen the hex, the spider, and several other designs. I am not sure I have seen this exact one, but there is one similar. It is a log periodic. However, as I look very closely at this one, (I enlarged the photos) I think it could be a log periodic made of delta loops. That's quite an antenna.

That's my guess. I hope you will find the owner and let us know more.

Buck
N4PGW

> -----Original Message-----
> From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf
> Of RFImages
> Sent: Saturday, June 04, 2005 4:07 PM
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] Is this a HEX Beam or a Spider or What????
>
> I was driving through Houten in the Netherlands and I saw
> this beam. Please click on the 4 photo links below:
> http://imagehost.epier.com/30490/DSC03886ant5x7.jpg
>
> This thing is huge and very impressive to say the least.
>
> It was Saturday and no one was at the building to ask about
> it.
>
> It appears to be commercially built.
>
> Does anyone know what this is?
>
>
> Thanks,
>
> Bill
>

2468. Re: [hex-beam] Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 16:18:23 UTC
From: KD5NWA
Topic: 2464 Message: 2468

Looks like a log periodic antenna, with some of the larger elements folded
like a hex-beam

At 03:06 PM 6/4/2005, you wrote:
>I was driving through Houten in the Netherlands and I saw
>this beam. Please click on the 4 photo links below:
>
>http://imagehost.epier.com/30490/DSC03883ant5x7.jpg
>
>http://imagehost.epier.com/30490/DSC03884ant5x7.jpg
>
>http://imagehost.epier.com/30490/DSC03885ant5x7.jpg
>
>http://imagehost.epier.com/30490/DSC03886ant5x7.jpg
>
>This thing is huge and very impressive to say the least.
>
>It was Saturday and no one was at the building to ask about
>it.
>
>It appears to be commercially built.
>
>Does anyone know what this is?
>
>
>Thanks,
>
>Bill
>
>
>
>
>
>_____
>Do You Yahoo!?
>Tired of spam? Yahoo! Mail has the best spam protection around
>http://mail.yahoo.com
>
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>
>Yahoo! Groups Links
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>
>--
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.0.323 / Virus Database: 267.6.2 - Release Date: 6/4/2005

Cecil Bayona
KD5NWA

2469. Re: Field Day 2005

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 16:47:23 UTC
From: w4wb
Topic: 2461 Message: 2469

Will do with the photos. One thing that is an interesting problem is how to mount the HB onto the mast during the erection of the tower. We are erecting 5-6 towers in about two hours with antenna assembly the hour before. Current plan for the Hex-Beam is to take 3 4-foot sections of scaffolding to form a working platform at 12' with the tower pulled up to about 20 degrees. Standing at 12' will make it easy to attach the 40-pound HB to the mast ... we think. With a 50' tower and 3-4' of mast, the interface point is about 16.5'. Other ideas are of course welcome!

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Pieter & Petro Du Toit" <zs1pdt@i...> wrote:
> Hi Barry how about some nice photo,s of the site with all the anttena,s and the hexbeam and also the station new zealand a bit far to come for a weekend 73 de zl1pdt nz
> ----- Original Message -----
> From: w4wb
> To: hex-beam@yahoogroups.com
> Sent: Thursday, June 02, 2005 3:16 PM
> Subject: [hex-beam] Field Day 2005
>
>
> For anyone that may be in the North Alabama area during Field Day June
> 24-25, you are invited to drop by the Huntsville Amateur Radio Club &
> North Alabama DX Club Field Day site located on the Intergraph property
> in Madison, Alabama on I-565. The club call is K4BFT or better known
> as K 4 Big Fat Turkey. The clubs enter in Class 5A and K4BFT is often
> #1 in Class 5A and frequently finishing in the top 10 overall.
>
> The 40-m SSB station will feature my 40-30 m Hex-Beam with expectations
> of helping the club's score more than normal. :-)
>
> If you are in the area, please drop by to take a look at the Hex-Beam
> and the rest of the antenna farm our groups rapidly erect. It is truly

> quite a sight and a great example of team work. You are also
welcome
> to operate the stations too!
>
> If you can't visit, then please try to work us!
>
> Tnx es 73,
> Barry W4WB
>
>
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> ----------

> Yahoo! Groups Links
>
> a.. To visit your group on the web, go to:
> http://groups.yahoo.com/group/hex-beam/
>
> b.. To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
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>
> [Non-text portions of this message have been removed]

2470. Re: [hex-beam] Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 18:34:27 UTC
From: kd1ia
Topic: 2464 Message: 2470

Well to mention the owner is probably the firm who's name is on the building. They are a German Telecomunicatoins firm.
de John ko1h
----- Original Message -----
From: KD5NWA
To: hex-beam@yahoogroups.com
Sent: Sunday, June 05, 2005 4:18 PM
Subject: Re: [hex-beam] Is this a HEX Beam or a Spider or What????

Looks like a log periodic antenna, with some of the larger elements folded
like a hex-beam

At 03:06 PM 6/4/2005, you wrote:
>I was driving through Houten in the Netherlands and I saw
>this beam. Please click on the 4 photo links below:
>
>http://imagehost.epier.com/30490/DSC03883ant5x7.jpg
>
>http://imagehost.epier.com/30490/DSC03884ant5x7.jpg
>
>http://imagehost.epier.com/30490/DSC03885ant5x7.jpg
>
>http://imagehost.epier.com/30490/DSC03886ant5x7.jpg
>
>This thing is huge and very impressive to say the least.
>
>It was Saturday and no one was at the building to ask about
>it.
>
>It appears to be commercially built.
>
>Does anyone know what this is?
>
>
>Thanks,
>
>Bill
>
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>_____
>Do You Yahoo!?
>Tired of spam? Yahoo! Mail has the best spam protection around

>http://mail.yahoo.com
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>Yahoo! Groups Links
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>--
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.0.323 / Virus Database: 267.6.2 - Release Date: 6/4/2005

Cecil Bayona
KD5NWA

Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.6.2 - Release Date: 6/4/2005

No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.6.2 - Release Date: 6/4/2005

[Non-text portions of this message have been removed]

2471. Re: [hex-beam] Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 19:31:19 UTC
From: Mike/k1eg
Topic: 2464 Message: 2471

Well considering who the company is I would say that Dr. Rhode is up to his ole engineering tricks. From the looks of this I would say it is LPA's that can be phased. Anybody else have any ideas?

Mike/K1EG

----- Original Message -----
From: "RFImages" <rfimages@...>
To: <hex-beam@yahoogroups.com>
Sent: Saturday, June 04, 2005 3:06 PM
Subject: [hex-beam] Is this a HEX Beam or a Spider or What????

> I was driving through Houten in the Netherlands and I saw
> this beam. Please click on the 4 photo links below:
>
> http://imagehost.epier.com/30490/DSC03883ant5x7.jpg
>
> http://imagehost.epier.com/30490/DSC03884ant5x7.jpg
>
> http://imagehost.epier.com/30490/DSC03885ant5x7.jpg
>
> http://imagehost.epier.com/30490/DSC03886ant5x7.jpg
>
> This thing is huge and very impressive to say the least.
>
> It was Saturday and no one was at the building to ask about
> it.
>
> It appears to be commercially built.
>
> Does anyone know what this is?
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>
> Thanks,
>
> Bill
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>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

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> Yahoo! Groups Links
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> --
> No virus found in this incoming message.
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> Version: 7.0.323 / Virus Database: 267.6.2 - Release Date: 6/4/2005
>
>

2472. Re: [hex-beam] Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 21:02:36 UTC
From: m0clz
Topic: 2464 Message: 2472

LPA's I think this is the one (X3)
http://www.rohde-schwarz.com/www/dev_center.nsf/frameset?OpenAgent&website=com&content=/www/dev_center.nsf/html/11a307
It appears they are only for rx

Have Fun
Dick m0clz

----- Original Message -----
From: "Mike/k1eg" <k1eg@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, June 05, 2005 8:31 PM
Subject: Re: [hex-beam] Is this a HEX Beam or a Spider or What????

> Well considering who the company is I would say that Dr. Rhode is up to
> his
> ole engineering tricks. From the looks of this I would say it is LPA's
> that
> can be phased. Anybody else have any ideas?
>
> Mike/K1EG
>

2473. Phantom antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 21:15:47 UTC
From: w6hb
Topic: 2473 Message: 2473

AK471
Rotatable Log-Periodic Antenna System

7 MHz to 30 MHz
For transmission and reception of horizontally polarized waves
especially over long distances

The compact Rotatable Log-Periodic Antenna System R&S AK471 is used
for the transmission and reception of horizontally polarized waves.
Due to its transmission frequency range from 7 MHz to 30 MHz it is
used especially over long distances. Reception is possible from 3 MHz
to 30 MHz, leading to coverage of almost all distances. Its low
weight and small size make the antenna system ideal for installation
on roofs.

Special features
Extremely small dimensions
Low weight
Easy and quick assembly
Little maintenance required

or

AK451
Rotatable Log Periodic Antenna System

5 MHz to 30 MHz
For transmission and reception of horizontally polarized waves over
medium to long distances

The compact Rotatable Log-Periodic Antenna System R&S AK451 is used
for the transmission and reception of horizontally polarized waves.
Due to a transmission frequency range from 5 MHz to 30 MHz, the
antenna system is particularly suitable for operation over medium to
long distances despite its extremely small size. Reception is
possible from 2 MHz, thus covering all distances.

Special features
Extremely small dimensions (size of loaded log-periodic antenna for
6.2 MHz to 30 MHz)
Transmission from 5 MHz, reception from 2 MHz
Unrestricted half-wave elements leading to high antenna gain
Easy and quick assembly
Little maintenance required

©2004 ROHDE&SCHWARZ. All rights reserved.

...found these in their catalog on line,

73 - Doug - W6HB

2474. Re: Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 21:20:59 UTC
From: on6ec
Topic: 2464 Message: 2474

General Information

5 MHz to 30 MHz
For transmission and reception of horizontally polarized waves over medium to long distances

The compact Rotatable Log-Periodic Antenna System R&S AK451 is used for the transmission and reception of horizontally polarized waves. Due to a transmission frequency range from 5 MHz to 30 MHz, the antenna system is particularly suitable for operation over medium to long distances despite its extremely small size. Reception is possible from 2 MHz, thus covering all distances.

Special features
Extremely small dimensions (size of loaded log-periodic antenna for 6.2 MHz to 30 MHz)
Transmission from 5 MHz, reception from 2 MHz
Unrestricted half-wave elements leading to high antenna gain
Easy and quick assembly
Little maintenance required

ON6EC
Ed

--- In hex-beam@yahoogroups.com, RFImages <rfimages@y...> wrote:
> I was driving through Houten in the Netherlands and I saw
> this beam. Please click on the 4 photo links below:
>
> http://imagehost.epier.com/30490/DSC03883ant5x7.jpg
>
> http://imagehost.epier.com/30490/DSC03884ant5x7.jpg
>
> http://imagehost.epier.com/30490/DSC03885ant5x7.jpg
>
> http://imagehost.epier.com/30490/DSC03886ant5x7.jpg
>
> This thing is huge and very impressive to say the least.
>
> It was Saturday and no one was at the building to ask about
> it.
>
> It appears to be commercially built.
>
> Does anyone know what this is?
>
>

> Thanks,
>
> Bill
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

2475. Re: [hex-beam] Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 21:31:46 UTC
From: Mike/k1eg
Topic: 2464 Message: 2475

Dick I don't think that's the one because the data sheet says it is 94 meters long by 88 meters wide and the mast is 66 meters tall. The pictures show this being able to be turned with a heavy duty rotor. I suspect that one unit is the driven element and the other two are directors of some kind. I wish Bill had stopped and asked because Dr. Rhode is a real friend to the amateur community and would have told him. How many people remember the articles that he did for old Ham Radio magazine? If it was still around he probably would have done an article on it. I vaguely remember an article in there at one time about steerable log periodics but don't remember if it was by Dr. Rhode.

Mike/K1EG

----- Original Message -----
From: "m0clz" <m0clz1@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, June 05, 2005 4:02 PM
Subject: Re: [hex-beam] Is this a HEX Beam or a Spider or What????

>
> LPA's I think this is the one (X3)
>
http://www.rohde-schwarz.com/www/dev_center.nsf/frameset?OpenAgent&website=com&content=/www/dev_center.nsf/html/11a307
> It appears they are only for rx
>
> Have Fun
> Dick m0clz
>
> ----- Original Message -----
> From: "Mike/k1eg" <k1eg@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Sunday, June 05, 2005 8:31 PM
> Subject: Re: [hex-beam] Is this a HEX Beam or a Spider or What????
>
>
> > Well considering who the company is I would say that Dr. Rhode is up to
> > his
> > ole engineering tricks. From the looks of this I would say it is LPA's
> > that
> > can be phased. Anybody else have any ideas?
> >
> > Mike/K1EG
> >
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> Yahoo! Groups Links
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> --
> No virus found in this incoming message.
> Checked by AVG Anti-Virus.
> Version: 7.0.323 / Virus Database: 267.6.2 - Release Date: 6/4/2005
>
>

2476. Re: [hex-beam] Phantom antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 21:54:34 UTC
From: Mike/k1eg
Topic: 2473 Message: 2476

Comparing the pictures I would say it is the AK451. Boy would I love to see a schematic of this antenna with the wire dimensions on it.

Mike/K1EG

----- Original Message -----
From: "w6hb" <w6hb@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, June 05, 2005 4:15 PM
Subject: [hex-beam] Phantom antenna

AK471
Rotatable Log-Periodic Antenna System

7 MHz to 30 MHz
For transmission and reception of horizontally polarized waves especially over long distances

The compact Rotatable Log-Periodic Antenna System R&S AK471 is used for the transmission and reception of horizontally polarized waves. Due to its transmission frequency range from 7 MHz to 30 MHz it is used especially over long distances. Reception is possible from 3 MHz to 30 MHz, leading to coverage of almost all distances. Its low weight and small size make the antenna system ideal for installation on roofs.

Special features
Extremely small dimensions
Low weight
Easy and quick assembly
Little maintenance required

or

AK451
Rotatable Log Periodic Antenna System

5 MHz to 30 MHz
For transmission and reception of horizontally polarized waves over medium to long distances

The compact Rotatable Log-Periodic Antenna System R&S AK451 is used for the transmission and reception of horizontally polarized waves. Due to a transmission frequency range from 5 MHz to 30 MHz, the antenna system is particularly suitable for operation over medium to long distances despite its extremely small size. Reception is possible from 2 MHz, thus covering all distances.

Special features
Extremely small dimensions (size of loaded log-periodic antenna for
6.2 MHz to 30 MHz)
Transmission from 5 MHz, reception from 2 MHz
Unrestricted half-wave elements leading to high antenna gain
Easy and quick assembly
Little maintenance required

?2004 ROHDE&SCHWARZ. All rights reserved.

...found these in their catalog on line,

73 - Doug - W6HB

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.6.2 - Release Date: 6/4/2005

2477. RE: [hex-beam] Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 17:42:00 UTC
From: Mike Baker
Topic: 2464 Message: 2477

Yep.
Its a wire LPDA that uses linear loading for the lower band elements.
I have no idea who made it but it is interesting.

Mike Baker K7DD
k7ddmjb@...

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com]On
Behalf Of RFImages
Sent: Saturday, June 04, 2005 1:07 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Is this a HEX Beam or a Spider or What????

I was driving through Houten in the Netherlands and I saw
this beam. Please click on the 4 photo links below:

http://imagehost.epier.com/30490/DSC03883ant5x7.jpg

http://imagehost.epier.com/30490/DSC03884ant5x7.jpg

http://imagehost.epier.com/30490/DSC03885ant5x7.jpg

http://imagehost.epier.com/30490/DSC03886ant5x7.jpg

This thing is huge and very impressive to say the least.

It was Saturday and no one was at the building to ask about
it.

It appears to be commercially built.

Does anyone know what this is?

Thanks,

Bill

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

Yahoo! Groups Links

2478. RE: [hex-beam] Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 18:44:07 UTC
From: TOM
Topic: 2464 Message: 2478

R/S - Rohde and Schwarz makes RF Test Equipment... Service Monitors - Spectrum Analyzers - Base Station / Cell fone test gear. Kinda like H-P / Agilent here in the states. There gear test DC to light. So no uncommon for them to have a wire based log periodic.

Tom
K2TC

From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of kd1ia
Sent: Sunday, June 05, 2005 2:34 PM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] Is this a HEX Beam or a Spider or What????

Well to mention the owner is probably the firm who's name is on the building. They are a German Telecomunicatoins firm.
de John ko1h
----- Original Message -----
From: KD5NWA
To: hex-beam@yahoogroups.com
Sent: Sunday, June 05, 2005 4:18 PM
Subject: Re: [hex-beam] Is this a HEX Beam or a Spider or What????

Looks like a log periodic antenna, with some of the larger elements folded

like a hex-beam

At 03:06 PM 6/4/2005, you wrote:
>I was driving through Houten in the Netherlands and I saw
>this beam. Please click on the 4 photo links below:
>
>http://imagehost.epier.com/30490/DSC03883ant5x7.jpg
>
>http://imagehost.epier.com/30490/DSC03884ant5x7.jpg
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>http://imagehost.epier.com/30490/DSC03885ant5x7.jpg
>
>http://imagehost.epier.com/30490/DSC03886ant5x7.jpg
>
>This thing is huge and very impressive to say the least.
>
>It was Saturday and no one was at the building to ask about
>it.
>
>It appears to be commercially built.

>
>Does anyone know what this is?
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>Thanks,
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>Bill
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>_____
>Do You Yahoo!?
>Tired of spam? Yahoo! Mail has the best spam protection around
>http://mail.yahoo.com
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>Yahoo! Groups Links
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>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.0.323 / Virus Database: 267.6.2 - Release Date: 6/4/2005

Cecil Bayona
KD5NWA

--
Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

--

No virus found in this incoming message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.6.2 - Release Date: 6/4/2005

No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.6.2 - Release Date: 6/4/2005

[Non-text portions of this message have been removed]

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

* To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com
<mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

2479. RE: [hex-beam] Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-05 21:22:31 UTC
From: TOM
Topic: 2464 Message: 2479

This is a AK-451...

AK451

Rotatable Log Periodic Antenna System
<http://www.rohde-schwarz.com/b.gif>
<http://www.rohde-schwarz.com/b.gif>
<http://www.rohde-schwarz.com/b.gif>

<http://www.rohde-schwarz.com/www/dev_center.nsf/html/11a112> Key Facts

<http://www.rohde-schwarz.com/www/dev_center.nsf/html/11a112para> Images

<http://www.rohde-schwarz.com/www/dev_center.nsf/html/11a112down> Downloads

<http://www.rohde-schwarz.com/www/response.nsf/productcontactForm?OpenForm&p
roduct=11a112&title=AK451> Contact

<http://www.rohde-schwarz.com/www/dev_center.nsf/html/11a112> Key Facts

<http://www.rohde-schwarz.com/www/dev_center.nsf/html/11a112para> Images

<http://www.rohde-schwarz.com/www/dev_center.nsf/html/11a112down> Downloads

<http://www.rohde-schwarz.com/www/response.nsf/productcontactForm?OpenForm&p
roduct=11a112&title=AK451> Contact

Sitemap
<http://www.rohde-schwarz.com/www/dev_center.nsf/productsitemap20021023?Open
Agent&product=11a112> (for users who have not activated Javascript)

<http://www.rohde-schwarz.com/b.gif>
<http://www.rohde-schwarz.com/b.gif>
<http://www.rohde-schwarz.com/b.gif>
General Information

5 MHz to 30 MHz
For transmission and reception of horizontally polarized waves over medium
to long distances

The compact Rotatable Log-Periodic Antenna System R&S AK451 is used for the
transmission and reception of horizontally polarized waves. Due to a
transmission frequency range from 5 MHz to 30 MHz, the antenna system is
particularly suitable for operation over medium to long distances despite
its extremely small size. Reception is possible from 2 MHz, thus covering
all distances.

Special features

* Extremely small dimensions (size of loaded log-periodic antenna for
6.2 MHz to 30 MHz)

* Transmission from 5 MHz, reception from 2 MHz

* Unrestricted half-wave elements leading to high antenna gain

* Easy and quick assembly

* Little maintenance required

.

From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf
Of m0clz
Sent: Sunday, June 05, 2005 5:03 PM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] Is this a HEX Beam or a Spider or What????

LPA's I think this is the one (X3)
http://www.rohde-schwarz.com/www/dev_center.nsf/frameset?OpenAgent
<http://www.rohde-schwarz.com/www/dev_center.nsf/frameset?OpenAgent&website=
com&content=/www/dev_center.nsf/html/11a307>
&website=com&content=/www/dev_center.nsf/html/11a307
It appears they are only for rx

Have Fun
Dick m0clz

----- Original Message -----
From: "Mike/k1eg" <k1eg@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, June 05, 2005 8:31 PM
Subject: Re: [hex-beam] Is this a HEX Beam or a Spider or What????

> Well considering who the company is I would say that Dr. Rhode is up to
> his
> ole engineering tricks. From the looks of this I would say it is LPA's
> that
> can be phased. Anybody else have any ideas?
>
> Mike/K1EG
>

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

* To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

<mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service <http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

2480. Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-06 03:42:37 UTC
From: vk2nu@bigpond.net.au
Topic: 2464 Message: 2480

Bill,

Looks like a wire log periodic to me. very impressive indeed.

There is a version of this in the ARRL antenna handbook from a few years ago made out of reject pole vaulting poles. This one looks much more sturdy though. Nice pictures.

David, Vk2NU

Date: Sat, 4 Jun 2005 13:06:53 -0700 (PDT)
>
From: RFImages <rfimages@...>
>
Subject: Is this a HEX Beam or a Spider or What????
>

>
I was driving through Houten in the Netherlands and I saw
>
this beam. Please click on the 4 photo links below:
>

>
http://imagehost.epier.com/30490/DSC03883ant5x7.jpg
>

>
http://imagehost.epier.com/30490/DSC03884ant5x7.jpg
>

>
http://imagehost.epier.com/30490/DSC03885ant5x7.jpg
>

>
http://imagehost.epier.com/30490/DSC03886ant5x7.jpg
>

>
This thing is huge and very impressive to say the least.
>

>
It was Saturday and no one was at the building to ask about
>
it.
>

>
It appears to be commercially built.
>

>
Does anyone know what this is?
>

>

>
Thanks,
>

>
Bill
>

>

>

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>

>
Do You Yahoo!?
>
Tired of spam? Yahoo! Mail has the best spam protection around
>
http://mail.yahoo.com
>

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Yahoo! Groups Links
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>
http://groups.yahoo.com/group/hex-beam/
>

>
hex-beam-unsubscribe@yahoogroups.com
>

>
http://docs.yahoo.com/info/terms/
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2481. Re: Field Day 2005

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-06 08:02:39 UTC
From: dl7io
Topic: 2461 Message: 2481

Hello Bill,
we had our IARU Region 1 CW-Fieldday last weekend.
I joined some friends at DA0CB/p. One of the antennas was a DL7IO-40-4 (40/30/20/17/15m) @20m height. The other high band antenna was a A3S also at 20m. We tested a bit before the contest and got same reports on 20 & 15m for both antennas.
40m was our best band by DX and No. of Q's. We started in the 100w category with only 1TX but unlimited antennas. I'm not sure how your classes are defined.
I will shortly add some photos to the group or give a link where they are on my website as we are limited with the webspace on the group photo page.
regards Holger

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> For anyone that may be in the North Alabama area during Field Day June
> 24-25, you are invited to drop by the Huntsville Amateur Radio Club &
> North Alabama DX Club Field Day site located on the Intergraph property
> in Madison, Alabama on I-565. The club call is K4BFT or better known
> as K 4 Big Fat Turkey. The clubs enter in Class 5A and K4BFT is often
> #1 in Class 5A and frequently finishing in the top 10 overall.
>
> The 40-m SSB station will feature my 40-30 m Hex-Beam with expectations
> of helping the club's score more than normal. :-)
>
> If you are in the area, please drop by to take a look at the Hex-Beam
> and the rest of the antenna farm our groups rapidly erect. It is truly
> quite a sight and a great example of team work. You are also welcome
> to operate the stations too!
>
> If you can't visit, then please try to work us!
>
> Tnx es 73,
> Barry W4WB

2482. Hex Beam IDEA

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-06 20:12:07 UTC
From: mvaughanusm81
Topic: 2482 Message: 2482

Hello all in the Hex Beam group! I have an idea and was wondering if someone would put it to use before field day, (for those who have the resources and time) for this project.

I have been using a "slinky dipole" for the past year in my house. Now for the idea part... What if you used a "slinky" as the director and/or reflector elements for the HEX BEAM antenna? 1)Would the footprint of the antenna be smaller? 2)Would you have a gain comparible to a regular hex beam? 3)What would this do with the spacing for the other bands if you were able to build this?

I know I could come up with the bamboo poles and slinky, but I am in need of the other hardware...i.e. mast, coax necessary for hook up, rotor, to make it work on my own and get back with you.

73's

Mike, WD5CCW

p.s. Thank you Barry for your alertness, your a great moderator!

2483. RE: Mike....Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-06 17:52:20 UTC
From: rfimages
Topic: 2483 Message: 2483

Hi Mike,

I did stop at the building but it was Saturday and no body was there.
I may be over in that area again in October. If so I will try to
make arrangements in advance to see the antenna up close.

I got a hold of Dr. Rhode's email address and and sent him a note.

Bill

I wish Bill had stopped and asked because Dr. Rhode is a
real friend to the
amateur community and would have told him. How many people
remember the
articles that he did for old Ham Radio magazine? If it was
still around he
probably would have done an article on it. I vaguely
remember an article in
there at one time about steerable log periodics but don't
remember if it was
by Dr. Rhode.

Mike/K1EG

2484. Re: [hex-beam] Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-06 20:52:52 UTC
From: Paul
Topic: 2464 Message: 2484

I'm sure R&S would sell you one if you asked... at a price of course! :-)

Paul MW0CDO
----- Original Message -----
From: vk2nu@...
To: hex-beam@yahoogroups.com
Sent: Monday, June 06, 2005 4:42 AM
Subject: [hex-beam] Is this a HEX Beam or a Spider or What????

Bill,

Looks like a wire log periodic to me. very impressive indeed.

There is a version of this in the ARRL antenna handbook from a few years ago made out of reject pole vaulting poles. This one looks much more sturdy though. Nice pictures.

David, Vk2NU

Date: Sat, 4 Jun 2005 13:06:53 -0700 (PDT)
>
From: RFImages <rfimages@...>
>
Subject: Is this a HEX Beam or a Spider or What????
>

>
I was driving through Houten in the Netherlands and I saw
>
this beam. Please click on the 4 photo links below:
>

>
http://imagehost.epier.com/30490/DSC03883ant5x7.jpg
>

>
http://imagehost.epier.com/30490/DSC03884ant5x7.jpg
>

>
http://imagehost.epier.com/30490/DSC03885ant5x7.jpg
>

>
http://imagehost.epier.com/30490/DSC03886ant5x7.jpg
>

>
This thing is huge and very impressive to say the least.
>

>
It was Saturday and no one was at the building to ask about
>
it.
>

>
It appears to be commercially built.
>

>
Does anyone know what this is?
>

>

>
Thanks,
>

>
Bill
>

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Do You Yahoo!?
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Tired of spam? Yahoo! Mail has the best spam protection around
>
http://mail.yahoo.com
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Yahoo! Groups Links
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http://groups.yahoo.com/group/hex-beam/
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hex-beam-unsubscribe@yahoogroups.com
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http://docs.yahoo.com/info/terms/
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Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/hex-beam/

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2485. Re: [hex-beam] RE: Mike....Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-07 06:46:12 UTC
From: Mike/k1eg
Topic: 2483 Message: 2485

What really catches my attention is the linear loading for the lower bands. If we could find out more about that we may be able to apply something like that to Hex beams to reduce size on the lower bands. That's why I said I would love to see a schematic of this antenna and it's linear loading method.

Mike

----- Original Message -----
From: "rfimages" <rfimages@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, June 06, 2005 12:52 PM
Subject: [hex-beam] RE: Mike....Is this a HEX Beam or a Spider or What????

> Hi Mike,
>
> I did stop at the building but it was Saturday and no body was there.
> I may be over in that area again in October. If so I will try to
> make arrangements in advance to see the antenna up close.
>
> I got a hold of Dr. Rhode's email address and and sent him a note.
>
> Bill
>
>
>
>
> I wish Bill had stopped and asked because Dr. Rhode is a
> real friend to the
> amateur community and would have told him. How many people
> remember the
> articles that he did for old Ham Radio magazine? If it was
> still around he
> probably would have done an article on it. I vaguely
> remember an article in
> there at one time about steerable log periodics but don't
> remember if it was
> by Dr. Rhode.
>
> Mike/K1EG
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> Yahoo! Groups Links
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> --
> No virus found in this incoming message.
> Checked by AVG Anti-Virus.
> Version: 7.0.323 / Virus Database: 267.6.4 - Release Date: 6/6/2005
>
>

2486. Re: Mike....Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-07 20:01:49 UTC
From: dreschpe
Topic: 2483 Message: 2486

If you look on the photo you see that the company is called Rohde & Schwarz. On the webside www.rohde-schwarz.com you can find the AK451. It is a Log Priodic Antenna for 5 to 30 Mhz. You will find it on top of government buildings and embassys. Don`t think about the price ...

Peter

--- In hex-beam@yahoogroups.com, "rfimages" <rfimages@y...> wrote:
> Hi Mike,
>
> I did stop at the building but it was Saturday and no body was
there.
> I may be over in that area again in October. If so I will try to
> make arrangements in advance to see the antenna up close.
>
> I got a hold of Dr. Rhode's email address and and sent him a note.
>
> Bill
>
>
>
>
> I wish Bill had stopped and asked because Dr. Rhode is a
> real friend to the
> amateur community and would have told him. How many people
> remember the
> articles that he did for old Ham Radio magazine? If it was
> still around he
> probably would have done an article on it. I vaguely
> remember an article in
> there at one time about steerable log periodics but don't
> remember if it was
> by Dr. Rhode.
>
> Mike/K1EG

2487. fieldday photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-10 15:19:42 UTC
From: dl7io
Topic: 2487 Message: 2487

Hello,
a few photos of the fieldday at DA0CB/P can be found here:
http://www.dl7io.de/fieldday2005.html
regards Holger

2488. RE: [hex-beam] Re: Mike....Is this a HEX Beam or a Spider or What????

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-08 05:34:26 UTC
From: Buck - N4PGW
Topic: 2483 Message: 2488

I never found the price...

> -----Original Message-----
> From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf
>
> If you look on the photo you see that the company is called Rohde &
> Schwarz. On the webside www.rohde-schwarz.com you can find the AK451.
> It is a Log Priodic Antenna for 5 to 30 Mhz. You will find it on top
> of government buildings and embassys. Don`t think about the price ...
>
> Peter

2489. Re: [hex-beam] Digest Number 711

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-12 15:00:33 UTC
From: Lee McCoy
Topic: 2489 Message: 2489

I emailed and got a phone call reply to the tune of
$32,000+!

KD5WMI

--- hex-beam@yahoogroups.com wrote:

> There is 1 message in this issue.
>
> Topics in this digest:
>
> 1. RE: Re: Mike....Is this a HEX Beam or a
> Spider or What????
> From: "Buck - N4PGW"
> <n4pgw-list1@...>
>
>
>

>

>
> Message: 1
> Date: Wed, 8 Jun 2005 01:34:26 -0400
> From: "Buck - N4PGW" <n4pgw-list1@...>
> Subject: RE: Re: Mike....Is this a HEX Beam or a
> Spider or What????
>
> I never found the price...
>
> > -----Original Message-----
> > From: hex-beam@yahoogroups.com
> [mailto:hex-beam@yahoogroups.com] On Behalf
> >
> > If you look on the photo you see that the company
> is called Rohde &
> > Schwarz. On the webside www.rohde-schwarz.com you
> can find the AK451.
> > It is a Log Priodic Antenna for 5 to 30 Mhz. You
> will find it on top
> > of government buildings and embassys. Don`t think
> about the price ...
> >
> > Peter
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> Yahoo! Groups Links
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> hex-beam-unsubscribe@yahoogroups.com
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Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2490. RE: [hex-beam] Digest Number 711

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-13 03:08:41 UTC
From: Buck - N4PGW
Topic: 2489 Message: 2490

Order me one when you order yours. I'll pay you when I get my paycheck.
;)

I have to admit that it does look quite complex. Being that it is being
sold to governments, I suspect it is very reliable and tough relatively
speaking.

Thanks
Buck
N4PGW

> -----Original Message-----
> From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf
> Of Lee McCoy
> Sent: Sunday, June 12, 2005 11:01 AM
> To: hex-beam@yahoogroups.com
> Subject: Re: [hex-beam] Digest Number 711
>
> I emailed and got a phone call reply to the tune of
> $32,000+!
>
> KD5WMI
>
> --- hex-beam@yahoogroups.com wrote:
>
> > There is 1 message in this issue.
> >
> > Topics in this digest:
> >
> > 1. RE: Re: Mike....Is this a HEX Beam or a
> > Spider or What????
> > From: "Buck - N4PGW"
> > <n4pgw-list1@...>
> >
> >
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> _____
> >
> > Message: 1
> > Date: Wed, 8 Jun 2005 01:34:26 -0400
> > From: "Buck - N4PGW" <n4pgw-list1@...>
> > Subject: RE: Re: Mike....Is this a HEX Beam or a
> > Spider or What????
> >

> > I never found the price...
> >
> > > -----Original Message-----
> > > From: hex-beam@yahoogroups.com
> > [mailto:hex-beam@yahoogroups.com] On Behalf
> > >
> > > If you look on the photo you see that the company
> > is called Rohde &
> > > Schwarz. On the webside www.rohde-schwarz.com you
> > can find the AK451.
> > > It is a Log Priodic Antenna for 5 to 30 Mhz. You
> > will find it on top
> > > of government buildings and embassys. Don`t think
> > about the price ...
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> > > Peter
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> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

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> Yahoo! Groups Links
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2491. Re: [hex-beam] Digest Number 711

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-12 19:13:44 UTC
From: Steven
Topic: 2489 Message: 2491

Check ebay first ;)
K6BZ

Lee McCoy wrote:

>I emailed and got a phone call reply to the tune of
>$32,000+!
>
>KD5WMI
>
>--- hex-beam@yahoogroups.com wrote:
>
>
>
>>There is 1 message in this issue.
>>
>>Topics in this digest:
>>
>> 1. RE: Re: Mike....Is this a HEX Beam or a
>>Spider or What????
>> From: "Buck - N4PGW"
>><n4pgw-list1@...>
>>
>>
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>_____
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>
>
>>Message: 1
>> Date: Wed, 8 Jun 2005 01:34:26 -0400
>> From: "Buck - N4PGW" <n4pgw-list1@...>
>>Subject: RE: Re: Mike....Is this a HEX Beam or a
>>Spider or What????
>>
>>I never found the price...
>>
>>
>>
>>>-----Original Message-----
>>>From: hex-beam@yahoogroups.com

>>>
>>>
>>[mailto:hex-beam@yahoogroups.com] On Behalf
>>
>>
>>>If you look on the photo you see that the company
>>>
>>>
>>is called Rohde &
>>
>>
>>>Schwarz. On the webside www.rohde-schwarz.com you
>>>
>>>
>>can find the AK451.
>>
>>
>>>It is a Log Priodic Antenna for 5 to 30 Mhz. You
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>>will find it on top
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>>>of government buildings and embassys. Don`t think
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>>about the price ...
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>>>Peter
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>Do You Yahoo!?
>Tired of spam? Yahoo! Mail has the best spam protection around
>http://mail.yahoo.com
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[Non-text portions of this message have been removed]

2492. Re: [hex-beam] Digest Number 711

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-13 03:44:35 UTC
From: Jason Hissong
Topic: 2489 Message: 2492

Heh,

It makes the Hexbeam price more appealing..

Jason
N8XE

Buck - N4PGW wrote:

>Order me one when you order yours. I'll pay you when I get my paycheck.
>;)
>
>I have to admit that it does look quite complex. Being that it is being
>sold to governments, I suspect it is very reliable and tough relatively
>speaking.
>
>Thanks
>Buck
>N4PGW
>
>
>
>

--

"A long journey starts with the first step and an understanding spouse."
http://www.undermidnight.com - astronomy and astrophotography
http://www.n8xe.com - ham radio
http://www.jasonhissong.com - electronic music composition

2493. RE: [hex-beam] Digest Number 711

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-13 05:27:45 UTC
From: Buck - N4PGW
Topic: 2489 Message: 2493

I think I remember a similar antenna design in the ARRL site. It is a log periodic made with wires and string on spacers. It may not be as elaborate, but it will work. A little modification to the design, and who knows, you may duplicate the RF results of the gold antenna.

> -----Original Message-----
> From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf
> Of Jason Hissong
> Sent: Sunday, June 12, 2005 11:45 PM
> To: hex-beam@yahoogroups.com
> Subject: Re: [hex-beam] Digest Number 711
>
> Heh,
>
> It makes the Hexbeam price more appealing..
>
> Jason
> N8XE
>
> Buck - N4PGW wrote:
>
> >Order me one when you order yours. I'll pay you when I get my paycheck.
> >;)
> >
> >I have to admit that it does look quite complex. Being that it is being
> >sold to governments, I suspect it is very reliable and tough relatively
> >speaking.
> >
> >Thanks
> >Buck
> >N4PGW
> >
> >
> >
> >
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> --
>
> "A long journey starts with the first step and an understanding spouse."
> http://www.undermidnight.com - astronomy and astrophotography
> http://www.n8xe.com - ham radio
> http://www.jasonhissong.com - electronic music composition
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> Yahoo! Groups Links
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2494. 3 Elements Hex-beam for 50 MHz ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-13 20:08:20 UTC
From: Giancarlo
Topic: 2494 Message: 2494

Has anyone experimented on a 3 elements Hex-beam for 50 MHz?
If yes how it was the director integrated and if interlaced with a multiband HF Hex-beam?

I have the intention to assemble a six bands Hex-beam 6m to 20 m.

I do not know if the addition of a 3rd elemnt of such a beam has any sense and worthed gain.

Thanks and 73

Gian
I7SWX
F5VGU
W1-I7SWX

2495. [OT] SN0BSD / Conference held in Cracow, Poland

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-15 08:49:13 UTC
From: Dawid Szymański
Topic: 2495 Message: 2495

Hello,

I'd like to invite you to work with station

SN0BSD

that will work from Cracow on 17,18,19 of June
due to MeetBSD 2005 conference (http://2005.meetbsd.org/).

Operators that will handle this:

Lukasz (SQ9JTI), Przemek (SQ8JIV), Dawid(SQ6EMM)

we will work on 80,40,20,10,2 bands (unfortunatelly we have
only 80m dipole on HF bans).

All QSO's will be confirmed with cards.

We will work thanks to help of PROIDEA organization
(http://www.proidea.org.pl/) and ham club SP9PKZ, which
help us to get a callsign.

Details will be on http://hamradio.pl/sn0bsd/

on behalf of SN0BSD
Dawid (SQ6EMM)
VY73!

--
VY73 de SQ6EMM (QRP)

2496. A "Hanging Hex"

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-22 05:15:50 UTC
From: hopat48
Topic: 2496 Message: 2496

I live on a city lot with several large Oak trees scattered about. Since moving to this QTH about 5 years I have used a 80M horizontal loop draped through the tops of the trees. It worked well enough but I wanted a directional antenna. After reading Mike Traffie's technical articles and various postings here, I decided the Hex Beam was for me but didn't know where I could place it. I hit upon the idea of hanging it from a high limb on one of the Oak trees in the back yard. I ordered a HX5BI from Mike...he said he had never heard of a hanging Hex but that it should work. I found a limb at 40' that looked strong enough to handle the Hex and a small rotator. A sling shot and fishing reel were used to place a rope over the limb. I stood on bathroom scales and pulled on the rope to "load test" the limb. 100 pounds caused about a 2' deflection. 35 pounds only moved it about a foot. I had to cut a couple of interfering limbs to clear the turning radius for the Hex. A "tree limb hook" was fashioned out of 1/4" X 1" strap steel. A swivel mounted pulley was added (rated at 400lbs). I used 3/16" braided Dacron rope to support the Hex. I attachted the rope to a sling using the inner U-Bolts that clamp the element to the hub A second pulley was required near the trunk of the tree to keep the support rope from interfering with rotation of the antenna. The Hex went up the Friday afternoon before the 2005 ARRL DX CW test. I didn't get to operate a lot but sure did enjoy the new "toy". I recently lowered it to move the ferrites to the feed point and to replace the 3/16" rope with 5/16". The 3/16" is rated at 700 lbs but it sure looks small! It's also hard to grip when raising the antenna. I had to us rosin on my glove to control it. I had mounted the ferrites below the hub but noticed the common mode noise from my urban power line environment (BPL would never work these lines...too much interference!) was quite a bit higher on the Hex than my Loop. I don't run the amplifier very often and when I do it's usually at the 500W level. I don't think the ferrites will saturate....and even if they do I don't see a big down side....the pattern isn't that skewed even with no balun. I also added a safety line to keep the antenna from reaching the ground if the rope or limb break. I trenched a 2" PVC conduit to the base of the Oak tree and drove a 8' copper ground rod a few feet away from the trunk. A Polyphaser arrestor is connected to the ground rod. Feeding the antenna with 100' of LMR-400 plus 50' of RG-8.

The Hex performs about like I expected. The 20M element is about 35' above ground. It really makes a difference on weak signals and the nulls off the side really help reduce QRM. All and all I very happy with how things have worked out. I've uploaded three photos that illustrate the lash up!

73,
Pat, W5VY

2497. HEXBEAM DD7ZW

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-21 18:44:29 UTC
From: Wolfgang Terheggen
Topic: 2497 Message: 2497

Hi all,
Just i uploaded 2 Pictures from my Homemade Hexbeam.
One Picture is the Analyzer Data, the other the Hexbeam on the House.
The Hight is appr. 15m over Ground
The SWR on 12m is about 1:2.8 the other all below 1:2
The 20m Gap between Driver and Reflector is unusual.
I archive in this Position the better SWR.
May this has a effect on the Gain and FB ratio.

Compare to my Moxon i has build before, the FB Ratio less.

73 Wolfgang DD7ZW

2498. Field Day - 40 m Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-23 22:53:26 UTC
From: w4wb
Topic: 2498 Message: 2498

Folks,

It appears all is prepared to get the 40-30 m Hex-Beam errected Friday afternoon at the Field Day site. Its tower will be one of five being erected in about a 3-4 hour time span. Should be interesting. Will post some photos after the event and an assessment of how the antenna performed.

Look for K4BFT ... Big Fat Turkey ... during the FD time!

73,
Barry W4WB

2499. Re: [hex-beam] Field Day - 40 m Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-24 00:54:06 UTC
From: Bill Deloach
Topic: 2498 Message: 2499

Hi Barry,

We will be running a 20 m portable Hex Beam in Savannah, Ga., at about 26 feet. The club is CARS, Coastal Amateur Radio Society and our special call will be: K4P. Hope to work you and looking for your report on the 40m beam.
Good luck this weekend.

73 de Bill DeLoach, K4WP--Savannah, Ga.
----- Original Message -----
From: "w4wb" <w4wb@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, June 23, 2005 10:53 PM
Subject: [hex-beam] Field Day - 40 m Hex-Beam

> Folks,
>
> It appears all is prepared to get the 40-30 m Hex-Beam errected Friday
> afternoon at the Field Day site. Its tower will be one of five being
> erected in about a 3-4 hour time span. Should be interesting. Will
> post some photos after the event and an assessment of how the antenna
> performed.
>
> Look for K4BFT ... Big Fat Turkey ... during the FD time!
>
> 73,
> Barry W4WB
>
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>
> Yahoo! Groups Links
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2500. Re: Field Day - 40 m Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-25 04:43:14 UTC
From: w4wb
Topic: 2498 Message: 2500

Hi Bill,

FB on running the 20 m HB for FD. I had good luck using the 5-band HB two years ago at 55'.

The 40-30 m Hexbeam was setup this afternoon w/o problems. We used a 12' scaffold to stand on while attaching the HB to the mast. We have a portable 30' tower that lifts the towers at the 28' point so that we can then easily set the tower on the base plate. Process takes at least 12 people, but it is safe and quick. The 40 m elements are at about 56'. I put on the SSB elements rather than the CW set since the station is dedicated to phone. The SWR from about 7.150 to 7.3 ranged from about 1.3 to 1.5:1. The SWR rose rapidly, as expected, as the frequency dropped below about 7.150. The 30 m SWR was also just fine. The 30 m elements have to be on the antenna in order for the 40 m elements to perform properly.

Have fun at FB and good luck!

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Bill Deloach" <k4qcd@c...> wrote:
> Hi Barry,
>
> We will be running a 20 m portable Hex Beam in Savannah, Ga., at about 26
> feet. The club is CARS, Coastal Amateur Radio Society and our special call
> will be: K4P. Hope to work you and looking for your report on the 40m
> beam.
> Good luck this weekend.
>
> 73 de Bill DeLoach, K4WP--Savannah, Ga.
> ----- Original Message -----
> From: "w4wb" <w4wb@a...>
> To: <hex-beam@yahoogroups.com>
> Sent: Thursday, June 23, 2005 10:53 PM
> Subject: [hex-beam] Field Day - 40 m Hex-Beam
>
>
> > Folks,
> >
> > It appears all is prepared to get the 40-30 m Hex-Beam errected Friday

> > afternoon at the Field Day site. Its tower will be one of five
being
> > erected in about a 3-4 hour time span. Should be interesting.
Will
> > post some photos after the event and an assessment of how the
antenna
> > performed.
> >
> > Look for K4BFT ... Big Fat Turkey ... during the FD time!
> >
> > 73,
> > Barry W4WB
> >
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> > Yahoo! Groups Links
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2501. Initial Evaluation of the 40-30 m Hexbeam at Field Day

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-26 00:52:32 UTC
From: w4wb
Topic: 2501 Message: 2501

After doing some "warm up" on the band just prior to Field Day, I felt ready to have some fun on 40 m SSB. During the warm up time, I did some quick testing with a modest number of hams to get some idea of F/B performance and how they thought my signal compared to others they had heard about the same time. Everyone said the F/B was at least 20 dB and that the signal was very good.

So now the test of fire so to speak began. I ran the first four hours (1800-2200 UTC) and made almost 300 contacts with no duplications (maybe 10 or so called that were dups in addition). This was notably more contacts than the 40 m CW station made during the same period and that is normally never the case. The operating technique I used was to park on a frequency just above 7.225 kHz and call CQ. At one point, my rate was almost 90 contacts per hour. I found it interesting that I could hear a station call off the back of the beam for example that was just slightly covered up by the heavy QRM. I would ask him to QRX for a moment while I turned the beam on him. Signal would notably increase and the contact would be made. Folks seemed impressed with the signal difference. This also helped me fight the QRM. I also note that the INRAD 4 kHz roofing filter I have in the FT-1000MP really is a big help under these band conditions. Also, I am using a G-1000DXS rotor. That fellow really can moved that big HexBeam fast.

Tonight will be interesting when the band opens and the west coast can be worked. Will attempt to provide a wrap-up report on Monday.

If you haven't participated in Field Day, maybe you can get on and give us some contacts! If you are a single operator at home, your report is 1D plus your ARRL Section identifier.

73,
Barry W4WB

2502. HexBeam F/B

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-27 16:08:25 UTC
From: Duke - NA1A
Topic: 2502 Message: 2502

Recent test done on 20M with a station in the midwest using a 3 element SteppIR at 70 ft and my HX5Bi at 45ft from California, the signal strength as observed and reported by the station with the SteppIR antenna was 59+ when I beamed toward him. When I turned the HesBeam 180 degree in the opposite direction, signal when down to 53.
We did this three times consecutively and got the same result.
Thought I might share this information with other HexBeam users and all the HexBeam Want To Know out there in radioland.

2503. Re: [hex-beam] HexBeam F/B

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-27 17:39:10 UTC
From: we1x@comcast.net
Topic: 2502 Message: 2503

Duke,

What I've discovered with my HX5-Bi is generally a 20 to 24 dB front-to-back at the lower portion of each band. However, the F-to-B drops as I move up the band.

Harry WE1X

---------- Original message ----------

>
> Recent test done on 20M with a station in the midwest using a 3 element SteppIR
> at 70 ft and my HX5Bi at 45ft from California, the signal strength as observed
> and reported by the station with the SteppIR antenna was 59+ when I beamed
> toward him. When I turned the HesBeam 180 degree in the opposite direction,
> signal when down to 53.
> We did this three times consecutively and got the same result.
> Thought I might share this information with other HexBeam users and all the
> HexBeam Want To Know out there in radioland.
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

2504. 40-30 m Hex-Beam Field Day Results

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-28 05:45:30 UTC
From: w4wb
Topic: 2504 Message: 2504

Folks,

Seven operators used the 40-30 m Hex-Beam (at 56') at Field Day under the call sign K4BFT (Huntsville, AL) in Class 5A. Everyone agreed that the antenna worked great! We made 865 contacts on 40 m phone.

As I already have reported, a number of stations reported prior to the start of the contest that the antenna demonstrated a F/B of 20-30 dB. In operation under the very heavy QRM conditions on 40 m phone during the contest, this performance was evident.

The G-1000DXA rotor was set to its high-speed setting and really moved the antenna around quickly and nicely. The operators soon learned that this was a tool they could used to enhance the QSO rate. There were many times I could just pick out a partial call sign and would ask the other station to QRX briefly while I turned the beam. Almost always, the station could then be heard Q5!

Sometimes a weak station would be masked a much stronger nearby station from a different heading. In such cases, I often was able to make the QSO by using the deep notch of the Hex-Beam that is about +/- 110 or so degrees from its pointing direction. By rotating the antenna so that the strong station was significantly attenuated, I typically could then make the contact.

The radio I used was a FT-1000MP with an INRAD 4 kHz roofing filter and the entire set of IF filters. There were times I used both the 2.0 kHz IF filters to overcome the very crowded 40 m band QRM.

I also operated from 7.150-7.300 kHz. The MFJ 259B analyzer indicated that the SWR was 2:1 at 7.135, about 1.2:1 at 7.160, and rose to about 1.5:1 at 7.3. Below 7.135, the SWR rose rapidly. The SWR was also fine on 30 m. I did listen on 30 m and noted the F/B was about the same as on 40 m, but I never made any contacts on 30 m since I forget to bring a key ... after all, this was the 40 m phone station.

My only regret is that the antenna is now back in the box until I can erect its new tower.

My sincere thanks go to the many members of the Huntsville Amateur Radio Club (HARC) who made the Field Day activity possible by erecting (and taking down) 5 fifty-foot towers quickly and safely, providing the facilities, and the always appreciated munchies and Saturday night cookout! HARC again demonstrated its capability to rapidly respond to emergencies that may arise, which require amateur radio communications support.

Some folks have asked if the 40-30 m antenna is available from Traffie. The answer is not yet. The one I have is an experimental antenna made up of bits and pieces so to speak. Mike worked on this over a number of months to get it to perform the way both he and I wanted it to do. I am very pleased and certainly recommend it to anyone needing a compact 40-30 m antenna (turning radius is about 19'). I do note that one needs to think about what part of the 40 m band the antenna will be used on mostly. I have a set of elements for the CW portion (my intended portion) and a set for the phone band (Field Day). For general use, I should think the CW elements will serve one well over the entire 7.0-7.3 band if a tuner is used when operating in the phone portion. Of course, the gain and F/B will drop somewhat in the phone band. If you want one of these, you can make one or maybe buy one from Traffie. Contact Mike directly to see if he will make commercial versions. For my part, this new antenna will soon be joining my five-year old 5-band Hex-Beam and the little 6-m Hex-Beam!

73,
Barry W4WB

2505. Re: 40-30 m Hex-Beam Field Day Results

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-28 07:46:07 UTC
From: dl7io
Topic: 2504 Message: 2505

great report Barry!
And congrats to your contest result. Would have liked to share a report but we are not allowed to radio above 7,1 MHz currently.
This sounds very similiar to my experiences.
I can confirm for my designs that they work from 7,0-7,3 below under 1:2 but of course gain and F/B is best in the lowest working section here CW.
Have you tried to use the antenna on 15m? Depending on the 40m wire dimensions it may work on the whole 15m band as well with gain of about 5-5,5 dBi (free space, no losses).
We made field tests and compared to A3S and FB33 beams (3 element tribanders based on a 15m design) and got same reports/results on both antennas. Antennas where at similiar towers of 20m height and 60m distance in between with same cable/lengths. This was suprising me. And that's why I do not install extra 15m elements into my 40m+ multiband versions.
BR Holger
PS. I can deliver 40m+ versions. Even 3 & 4 band versions are in use since more than 1 year now.

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> Folks,
>
> Seven operators used the 40-30 m Hex-Beam (at 56') at Field Day under
> the call sign K4BFT (Huntsville, AL) in Class 5A. Everyone agreed
> that the antenna worked great! We made 865 contacts on 40 m phone.
>
> As I already have reported, a number of stations reported prior to
> the start of the contest that the antenna demonstrated a F/B of 20-30
> dB. In operation under the very heavy QRM conditions on 40 m phone
> during the contest, this performance was evident.
>
> The G-1000DXA rotor was set to its high-speed setting and really
> moved the antenna around quickly and nicely. The operators soon
> learned that this was a tool they could used to enhance the QSO
> rate. There were many times I could just pick out a partial call
> sign and would ask the other station to QRX briefly while I turned
> the beam. Almost always, the station could then be heard Q5!
>
> Sometimes a weak station would be masked a much stronger nearby
> station from a different heading. In such cases, I often was able to
> make the QSO by using the deep notch of the Hex-Beam that is about

+/-
> 110 or so degrees from its pointing direction. By rotating the
> antenna so that the strong station was significantly attenuated, I
> typically could then make the contact.
>
> The radio I used was a FT-1000MP with an INRAD 4 kHz roofing filter
> and the entire set of IF filters. There were times I used both the
> 2.0 kHz IF filters to overcome the very crowded 40 m band QRM.
>
> I also operated from 7.150-7.300 kHz. The MFJ 259B analyzer
> indicated that the SWR was 2:1 at 7.135, about 1.2:1 at 7.160, and
> rose to about 1.5:1 at 7.3. Below 7.135, the SWR rose rapidly.
The
> SWR was also fine on 30 m. I did listen on 30 m and noted the F/B
> was about the same as on 40 m, but I never made any contacts on 30
m
> since I forget to bring a key ... after all, this was the 40 m
phone
> station.
>
> My only regret is that the antenna is now back in the box until I
can
> erect its new tower.
>
> My sincere thanks go to the many members of the Huntsville Amateur
> Radio Club (HARC) who made the Field Day activity possible by
> erecting (and taking down) 5 fifty-foot towers quickly and safely,
> providing the facilities, and the always appreciated munchies and
> Saturday night cookout! HARC again demonstrated its capability to
> rapidly respond to emergencies that may arise, which require
amateur
> radio communications support.
>
> Some folks have asked if the 40-30 m antenna is available from
> Traffie. The answer is not yet. The one I have is an experimental
> antenna made up of bits and pieces so to speak. Mike worked on
this
> over a number of months to get it to perform the way both he and I
> wanted it to do. I am very pleased and certainly recommend it to
> anyone needing a compact 40-30 m antenna (turning radius is about
> 19'). I do note that one needs to think about what part of the 40
m
> band the antenna will be used on mostly. I have a set of elements
> for the CW portion (my intended portion) and a set for the phone
band
> (Field Day). For general use, I should think the CW elements will
> serve one well over the entire 7.0-7.3 band if a tuner is used when
> operating in the phone portion. Of course, the gain and F/B will
> drop somewhat in the phone band. If you want one of these, you can
> make one or maybe buy one from Traffie. Contact Mike directly to

see
> if he will make commercial versions. For my part, this new antenna
> will soon be joining my five-year old 5-band Hex-Beam and the
little
> 6-m Hex-Beam!
>
> 73,
> Barry W4WB

2506. 20m mono hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-28 13:24:21 UTC
From: ant9845
Topic: 2506 Message: 2506

Hello all.
My name is Henning call vk2cap
I have started to build a 20m momo hexbeam.
can anybody help me find info on elements
and spacing
I have send some potos but are not sure
it they got to the right place.
For now all the best to all
keep up the good work
Henning vk2cap.

2507. Help information At Dl7io File section [hex-beam] 20m mono hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-28 18:48:19 UTC
From: Kevin Adam
Topic: 2506 Message: 2507

Look in here DL7IO has All the files he has been great at helping all us hams make this great antenna N9IWW
http://groups.yahoo.com/group/hex-beam/files/DL7IO/

look here if do not have the eznec program someone can give you the wire size and lengths you need

down load the file hex beam in 3 hours PDF file it has all measurements in it. Look at DL7IO.de web site he has a lot of information

http://groups.yahoo.com/group/hex-beam/files/

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of ant9845
Sent: Tuesday, June 28, 2005 8:24 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] 20m mono hexbeam

Hello all.
My name is Henning call vk2cap
I have started to build a 20m momo hexbeam.
can anybody help me find info on elements
and spacing
I have send some potos but are not sure
it they got to the right place.
For now all the best to all
keep up the good work
Henning vk2cap.

Yahoo! Groups Links

2508. Photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-29 12:51:02 UTC
From: ant9845
Topic: 2508 Message: 2508

Thank you for the help Kevin
I found the file and can now continue.
Can anybody tell me how to download
a PDF file to this group
I have a few pictures to show
best wishes Henning. vk2cap

2509. click on files link then add file Photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-29 13:49:02 UTC
From: Kevin Adam
Topic: 2508 Message: 2509

Click on the link area you want it in and then click on add file it will ask
for the file from your computer N9IWW

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf
Of ant9845
Sent: Wednesday, June 29, 2005 7:51 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Photos

Thank you for the help Kevin
I found the file and can now continue.
Can anybody tell me how to download
a PDF file to this group
I have a few pictures to show
best wishes Henning. vk2cap

Yahoo! Groups Links

2510. vk2cap folder

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-30 11:40:57 UTC
From: ant9845
Topic: 2510 Message: 2510

Thanks again for your help Kevin.
I created a folder (vk2cap) and added the photos
easy and painless if one know how.
I am going to finish the hexbeam
and compare it with my deltas loop
it will be interesting to se witch antennas is the best.

All the best Henning
VK2CAP

2511. linear loading

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-30 15:48:17 UTC
From: Colin
Topic: 2511 Message: 2511

Hi Guys
I`m pushed for space at my qth and although i`d love a 40m hex it just isn`t practical,I can, however, "just" squeeze in a 30m full size hex.
I`m sure there are others in a similar situation ;)

Has anyone modelled a linear loaded monobander vs a full size?

Ideally the loading would need to be kept to a minimum to preserve efficiency ie: just one band higher perhaps?
so a 30m full size hexbeam would become a linear loaded 40m.

I`m thinking the linear loads could be placed at the element knee points and brought back at right angles towards the center spreaders,which would make an ideal support and give just about enough physical length.

Any thoughts?

2512. RE: [hex-beam] linear loading

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-06-30 16:08:34 UTC
From: Mike Baker
Topic: 2511 Message: 2512

Hello Colin,
Take a look at what this fellow did to reduce the size of his antenna. Cheep and easy. I am about to apply the same method to a 40 meter moxon rectangle supported by 4 fiberglass fishing poles, sort of horizontal quad style. It reduces the size by what ever the velocity factor of the coax is you use for the elements. Use regular poly, its .66. Use Foam, is about .81. If size makes the difference, use the .66 stuff. I bought a 500 ft roll on E-Bay cheep several months ago and the method works fine.

http://www.hamuniverse.com/17mcoaxmox.html

Mike Baker K7DD
k7ddmjb@...

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com]On Behalf Of Colin
Sent: Thursday, June 30, 2005 8:48 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] linear loading

Hi Guys
I`m pushed for space at my qth and although i`d love a 40m hex it just isn`t practical,I can, however, "just" squeeze in a 30m full size hex. I`m sure there are others in a similar situation ;)

Has anyone modelled a linear loaded monobander vs a full size?

Ideally the loading would need to be kept to a minimum to preserve efficiency ie: just one band higher perhaps?
so a 30m full size hexbeam would become a linear loaded 40m.

I`m thinking the linear loads could be placed at the element knee points and brought back at right angles towards the center spreaders,which would make an ideal support and give just about enough physical length.

Any thoughts?

Yahoo! Groups Links

2513. Re: linear loading

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-01 01:22:25 UTC
From: Colin
Topic: 2511 Message: 2513

Hi Mike
Thanks for the information.
I`ve come across that one before on my travels but haven`t built one from coax.
I did build a regular moxon once but my recollection of the performance was that it didn`t seem to do as well as the hex at this qth.
I`m planning to rebuild the hex, so i figured i`d make the most of it and do some experimenting.
Shrinking the antenna to fit in the space is the goal but if an extra band can be had with reasonable efficiency at the same time, that would be ideal.

I have been thinking along the lines of linear loading somewhat reminiscent of the old 40m force-12 zr vertical, which used a one turn loop at either end of the short center fed 16ft dipole.

http://www.k2kw.com/verticals/image147.jpg

The hex element length would be a much larger percentage of a full halfwave (50%) than this expedition sized antenna and hence less loading would be needed.

Along similar lines is this article which looks more promising:
http://www.wr6wr.com/newSite/articles/features/olderfeatures/antennaswithtwist.html
and also:
http://www.qsl.net/w9anl/newsltrs/2004/0412.htm

If the 20m hex elements stay resonant with an additional spiral coil attached at the ends,reasonable 40m performance might be a possibility from a half sized hex.
(ie: adding 4 spiral coils to resonate the 20m driven/ref elements to 40m)

Whether the spirals would function in the same way as normal end spacings is another question.

Win,lose or draw.. its still fun to experiment.

--- In hex-beam@yahoogroups.com, "Mike Baker" <k7ddmjb@q...> wrote:
> Hello Colin,
> Take a look at what this fellow did to reduce the size of his antenna.
> Cheep and easy. I am about to apply the same method to a 40 meter moxon
> rectangle supported by 4 fiberglass fishing poles, sort of

horizontal quad
> style. It reduces the size by what ever the velocity factor of the
coax is
> you use for the elements. Use regular poly, its .66. Use Foam, is
about
> .81. If size makes the difference, use the .66 stuff. I bought a
500 ft
> roll on E-Bay cheep several months ago and the method works fine.
>
> http://www.hamuniverse.com/17mcoaxmox.html
>
> Mike Baker K7DD
> k7ddmjb@q...
>
>
>
> -----Original Message-----
> From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com]On
> Behalf Of Colin
> Sent: Thursday, June 30, 2005 8:48 AM
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] linear loading
>
>
> Hi Guys
> I`m pushed for space at my qth and although i`d love a 40m hex it
just
> isn`t practical,I can, however, "just" squeeze in a 30m full size
hex.
> I`m sure there are others in a similar situation ;)
>
> Has anyone modelled a linear loaded monobander vs a full size?
>
> Ideally the loading would need to be kept to a minimum to preserve
> efficiency ie: just one band higher perhaps?
> so a 30m full size hexbeam would become a linear loaded 40m.
>
> I`m thinking the linear loads could be placed at the element knee
> points and brought back at right angles towards the center
> spreaders,which would make an ideal support and give just about
enough
> physical length.
>
> Any thoughts?
>
>
>
>
>
> Yahoo! Groups Links

2514. Scematic needed

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-05 11:38:01 UTC
From: zr6wdc
Topic: 2514 Message: 2514

Hi Guys

I am looking for a scematic to biuld my first Hexagoanal Beam. I want to biuld a multi bander that can work on 80,40,20 and 10 meters. Can anybody please help me with a scematic or a website adres that I can vissit for imformation.

Thanks guys
73
ZR6WDC
Rhynhardt

2515. Scematic needed

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-05 12:11:58 UTC
From: zr6wdc
Topic: 2514 Message: 2515

Hi Guys

I am looking for a scematic to biuld my first Hexagoanal Beam. I want to biuld a multi bander that can work on 80,40,20 and 10 meters. Can anybody please help me with a scematic or a wesite adres that I can vissit for imformation.

Thanks guys
73
ZR6WDC
Rhynhardt

2516. Look in the file section of this group there in DL7IO [hex-beam] Scematic needed

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-05 14:14:52 UTC
From: Kevin Adam
Topic: 2514 Message: 2516

Look in the files section of yahoo group folder DL7IO he has all your
informati0on there 6-80 meters

N9IWW

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf
Of zr6wdc
Sent: Tuesday, July 05, 2005 7:12 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Scematic needed

Hi Guys

I am looking for a scematic to biuld my first Hexagoanal Beam. I want
to biuld a multi bander that can work on 80,40,20 and 10 meters. Can
anybody please help me with a scematic or a wesite adres that I can
vissit for imformation.

Thanks guys
73
ZR6WDC
Rhynhardt

Yahoo! Groups Links

2517. Re: [hex-beam] Digest Number 723

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-05 20:28:25 UTC
From: Giancarlo Moda
Topic: 2517 Message: 2517

Hi Rhynhardt,

I suggest you to look also at the Excel sheet:
hexbeamcalcv3 for elements sizes.

I hope you have the space and the support spiders to
assemble an 80 m hex-beam ... spiders will be longer
than 12 meter .... maybe you have nice bamboos there.

73

Gian
I7SWX

> Message: 1
> Date: Tue, 05 Jul 2005 11:38:01 -0000
> From: "zr6wdc" <zr6wdc@...>
> Subject: Scematic needed
>
> Hi Guys
>
> I am looking for a scematic to biuld my first
> Hexagoanal Beam. I want
> to biuld a multi bander that can work on 80,40,20
> and 10 meters. Can
> anybody please help me with a scematic or a website
> adres that I can
> vissit for imformation.
>
> Thanks guys
> 73
> ZR6WDC
> Rhynhardt
>
>

_____
Yahoo! Sports
Rekindle the Rivalries. Sign up for Fantasy Football
http://football.fantasysports.yahoo.com

2518. Home-brewing a 20-m hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-07 18:59:59 UTC
From: w1cpp
Topic: 2518 Message: 2518

Folks:
I am new to your group. There seems to be a lot of great data here.

I became interested in hex beams when working this last field day and Barry, W4WB, showed his 40-m HB. I did a quick google and found your group.

I am a full-time RVer and need a compact HF antenna for those times when parked. The HB seems just right.

I would like to home-brew a 20-m HB to start and then maybe mod it for 17-m if I succeed. Quick disassembly and reassembly are important to me.

I am searching for reasonably priced fiberglass poles. Any suggestions?

I have down-loaded several of the files you all have produced -- Thanks. However, any advice about got'chas or suggestions are welcome.

73, I am Pete Brake/W1CPP -- QTH: Huntsville, AL till Aug.

2519. Home-brewing a 20-m hex beam spreaders info and how to.

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-08 03:18:04 UTC
From: Kevin Adam
Topic: 2518 Message: 2519

Go to your nearest gander mountain store they have the Shakespeare fishing pole 16'- 20' footers if want that there is a 20 foot but ant present there in short supply you can also make to wire connectors out brass sinks the one that DL7IO has on his web site but the sinks are maybe 2 dollars for 10 ea. You ca use sch 40 electrical conduit 1 1/4" -1 1/2" will work just fine if your not able to make this contact DL7IO he can make you the center feed point if needed, these fishing pole will work great for temp use the collapse inside there self like a Cain pole telescope collapse to 4 foot or less.
You will just need some wire holders made up hold the wire to the spreaders. Look in the files section At DL7IO he has all the measurements you will need also look at the file a hex beam in three hours it will help you a lot.

N9IWW

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of w1cpp
Sent: Thursday, July 07, 2005 2:00 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Home-brewing a 20-m hex beam

Folks:
I am new to your group. There seems to be a lot of great data here.

I became interested in hex beams when working this last field day and Barry, W4WB, showed his 40-m HB. I did a quick google and found your group.

I am a full-time RVer and need a compact HF antenna for those times when parked. The HB seems just right.

I would like to home-brew a 20-m HB to start and then maybe mod it for 17-m if I succeed. Quick disassembly and reassembly are important to me.

I am searching for reasonably priced fiberglass poles. Any suggestions?

I have down-loaded several of the files you all have produced -- Thanks. However, any advice about got'chas or suggestions are welcome.

73, I am Pete Brake/W1CPP -- QTH: Huntsville, AL till Aug.

Yahoo! Groups Links

2520. Re: Scematic needed

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-08 12:14:54 UTC
From: dl7io
Topic: 2514 Message: 2520

Hello Rynhardt,
before you go for this nice multiband version you should model the antenna. The hexbeamcalc is only usable for monoband versions around 17m. Multiband designs are a bit more difficult and I would not suggest the "trial and error" method.
A 80m monoband design is in the excel file of mine for the calculation of the xyz coordinates for other antenna simulation software (files/DL7IO or http://www.dl7io.de/reflectedw). But untill I have not built a 80m antenna. I'm still looking for somebody who can install this antenna at minimum of 30m height.
BR Holger
--- In hex-beam@yahoogroups.com, "zr6wdc" <zr6wdc@t...> wrote:
> Hi Guys
>
> I am looking for a scematic to biuld my first Hexagoanal Beam. I want
> to biuld a multi bander that can work on 80,40,20 and 10 meters. Can
> anybody please help me with a scematic or a wesite adres that I can
> vissit for imformation.
>
> Thanks guys
> 73
> ZR6WDC
> Rhynhardt

2521. Hello all..newbie here

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-09 00:50:59 UTC
From: bur52
Topic: 2521 Message: 2521

Hi all.
I am a newbie to this group. I am planning to order a Hex 5 bander. I have spoken to Mike..and it seems to about the perfect antenna for my qth. I do have one question regarding the 5 bande version. Has anyone ever done one with 6 meters added, in lieu of say..12 meters? If that would be a tuning nightmare...How high would I have to stack a mono band 6 meter array over the five bander array?

While I am on a roll...anyone ever do a 6 and 2 meter dual band Hex??? I have a FT-767, and a fl-7000 mp. This rig also has the VHF modules, and I would like to have the ability of all bands on one mast.

I have the typical suburban (non-antenna friendly) QTH. I plan on using heavy duty antenna mast tubing(ten foot sections) Lag bolted to the side oh my House. It will be bracketed and supported by a wall...for about 20 feet of the total forty feet. Then be guyed at the rotor area . If the reports that I have read on this anttenna are true..this looks to be about the best possible set up for me...

thanks
73
JohnB
KB3LXY

2522. 20m mono

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-10 00:55:24 UTC
From: ant9845
Topic: 2522 Message: 2522

Hi all.
I have now finished my 20m hexbeam and have it on a 9' pole in the garden between lots of trees.
the reading at 9' is a little high 1: 2.2
It also had a drop test last night in a strong western wind and it survived without any trouble Hi.
My first contact was into the states with good reports.
I did a comparison with my delta loop that is in a much better location the loop was 3db above the hexbeam, I am sure the hexbeam will be better when it get up higher.
Also there is no problem to work 40m using the ft1000 tuner.
Next week it will go up on the mast if the wife will approve, she says old men like me should
not walk around on rooftops Hmmmmmmmm.
Henning vk2cap

2523. Re: [hex-beam] 20m mono

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-10 00:57:49 UTC
From: bur52@aol.com
Topic: 2522 Message: 2523

roof tops are good..it is the 100 foot towers, and worse tree's that are the issue !

Been there done that !
73
JohnB
KB3LXY

[Non-text portions of this message have been removed]

2524. 40-80 meter Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-10 11:54:02 UTC
From: bur52
Topic: 2524 Message: 2524

Another idea would be interesting. How about a 40 -80 meter single element type. I was thinking of using an alpha delta DXee dipole (40-80 meters) and re-comfiguring it along the lines of the Hex. But it's overall length would be 81 feet(dipole form). It has 40 meters, with two coils for 75-80. What do you think the radiation patterns would be ..if It was (one element) in a configuration such as the Hex? The dipole would be closer to a loop. But it would have the W configuration front and back...same element..

Might make a small package for the space handicaped operator??
JohnB
KB3LXY
73

2525. Rotator for 2 element 20 meter monobander Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-10 15:06:38 UTC
From: gerry nunan
Topic: 2525 Message: 2525

Hi from San Anton, TX !

Anyone have a recommendation for a rotator to turn this 2 el 20 meter monobander ? also, anyone know what the approximate wind load should be (for sizing the rotator) ..

Thanx ... Gerry K2HIG (ex-KE5DWM)

_____
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http://mail.yahoo.com

[Non-text portions of this message have been removed]

2526. Re: [hex-beam] Re: Scematic needed

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-11 07:58:07 UTC
From: Rhynhardt Louw
Topic: 2514 Message: 2526

Hi Holger

Thank you for the reply. I have been looking at your spread sheet. I also noticed that you biuld the mast for resale? What would a complete beam for 40 and 80 meters cost? I can take a 80 meter beam over 30 meters. We have got a game farm on the Botswna border and we have got biulding taller than 30 meters. And as you should know the propery in Africa is huge. So what did you have in mind with a beam on 80?

73
Rhynhardt

On Fri, 08 Jul 2005 12:14:54 -0000
"dl7io" <dl7io@...> wrote:
> Hello Rynhardt,
> before you go for this nice multiband version you should
>model the
> antenna. The hexbeamcalc is only usable for monoband
>versions around
> 17m. Multiband designs are a bit more difficult and I
>would not suggest
> the "trial and error" method.
> A 80m monoband design is in the excel file of mine for
>the calculation
> of the xyz coordinates for other antenna simulation
>software
> (files/DL7IO or http://www.dl7io.de/reflectedw). But
>untill I have not
> built a 80m antenna. I'm still looking for somebody who
>can install
> this antenna at minimum of 30m height.
> BR Holger
> --- In hex-beam@yahoogroups.com, "zr6wdc" <zr6wdc@t...>
>wrote:
> > Hi Guys
> >
> > I am looking for a scematic to biuld my first
>Hexagoanal Beam. I want
> > to biuld a multi bander that can work on 80,40,20 and
>10 meters. Can
> > anybody please help me with a scematic or a wesite
>adres that I can
> > vissit for imformation.
> >

> > Thanks guys
> > 73
> > ZR6WDC
> > Rhynhardt
>
>
>
> YAHOO! GROUPS LINKS
> Visit your group "hex-beam" on the web.
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
> Your use of Yahoo! Groups is subject to the Yahoo!
>Terms of Service.
>

For super low premiums, click here http://www.dialdirect.co.za/quote

2527. Traffie..old school

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-12 00:50:13 UTC
From: bur52
Topic: 2527 Message: 2527

Hello all...well I have to say that Mr Traffie is a very unique gent. I spoke to him about three weeks ago. It was in interest in one of his beams. I did in fact want to order one, but he informed me that he was in a back order situation for about three weeks. Since then I had gotten side tracked with some other issues. I called today just to appologize for not following up with him. To my pleasant suprise, not only did He say that the back order was caught up...but he had sent the bean out to me !

Now mind you this may not seem like that big of a deal. But keep in my mind..I have not sent him a payment !! Great guy...and I have to belive that he does have a bond with all fellow hams. If the antenna works half as well as he does things that will be enough for me. But I am sure it will perform even better. Kudo's to Me Traffie and his antennas.
JohnB
KB3LXY
73

2528. Re: [hex-beam] Traffie..old school

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-12 02:16:59 UTC
From: kd1ia
Topic: 2527 Message: 2528

Now if he would only nudge into the 20th not even the 21st but teh 20th century and get an Email address 8)

----- Original Message -----
From: bur52
To: hex-beam@yahoogroups.com
Sent: Tuesday, July 12, 2005 12:50 AM
Subject: [hex-beam] Traffie..old school

Hello all...well I have to say that Mr Traffie is a very unique gent.
I spoke to him about three weeks ago. It was in interest in one of his
beams. I did in fact want to order one, but he informed me that he was
in a back order situation for about three weeks. Since then I had
gotten side tracked with some other issues. I called today just to
appologize for not following up with him. To my pleasant suprise, not
only did He say that the back order was caught up...but he had sent the
bean out to me !

Now mind you this may not seem like that big of a deal. But keep in my
mind..I have not sent him a payment !! Great guy...and I have to belive
that he does have a bond with all fellow hams. If the antenna works
half as well as he does things that will be enough for me. But I am
sure it will perform even better. Kudo's to Me Traffie and his antennas.
JohnB
KB3LXY
73

YAHOO! GROUPS LINKS

a.. Visit your group "hex-beam" on the web.

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

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Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.12/46 - Release Date: 7/11/2005

No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.12/46 - Release Date: 7/11/2005

[Non-text portions of this message have been removed]

2529. Re: [hex-beam] Traffie..old school

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-12 02:18:59 UTC
From: bur52@aol.com
Topic: 2527 Message: 2529

LOL...like I said "old school" !!
73
JohnB

[Non-text portions of this message have been removed]

2530. RE: [hex-beam] Traffie..old school

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-12 02:36:31 UTC
From: Bill Metzger
Topic: 2527 Message: 2530

Yes he is! I have a Hexbeam that I purchased used. The antenna was missing some parts and needed some insulators replaced before I could install it. Mike and his son immediately sent them to me and only charged me for the shipping.

The antenna may be expensive but it works extremely well and the customer service is unheard of today.

Bill
KF0OH
-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com]On Behalf Of bur52
Sent: Monday, July 11, 2005 7:50 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Traffie..old school

Hello all...well I have to say that Mr Traffie is a very unique gent. I spoke to him about three weeks ago. It was in interest in one of his beams. I did in fact want to order one, but he informed me that he was in a back order situation for about three weeks. Since then I had gotten side tracked with some other issues. I called today just to appologize for not following up with him. To my pleasant suprise, not only did He say that the back order was caught up...but he had sent the bean out to me !

Now mind you this may not seem like that big of a deal. But keep in my mind..I have not sent him a payment !! Great guy...and I have to belive that he does have a bond with all fellow hams. If the antenna works half as well as he does things that will be enough for me. But I am sure it will perform even better. Kudo's to Me Traffie and his antennas.
JohnB
KB3LXY
73

--
YAHOO! GROUPS LINKS

a.. Visit your group "hex-beam" on the web.

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

--

[Non-text portions of this message have been removed]

2531. Re: [hex-beam] Traffie..old school

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-12 03:09:56 UTC
From: Jason Hissong
Topic: 2527 Message: 2531

One of the main reasons for me going with the Hexbeam was this type of service from Mike. The antenna has not let me down and it is really fun to operate QRP with the thing!! It is amazing how this thing works...

I own an Elecraft K2 which has one of the best receivers around. Combine the K2 with the Hexbeam and wow! You got a nice setup.

73
Jason N8XE

Bill Metzger wrote:

>Yes he is! I have a Hexbeam that I purchased used. The antenna was missing
>some parts and needed some insulators replaced before I could install it.
>Mike and his son immediately sent them to me and only charged me for the
>shipping.
>
>The antenna may be expensive but it works extremely well and the customer
>service is unheard of today.
>
>Bill
>KF0OH
>
>

--

"A long journey starts with the first step and an understanding spouse."
http://www.undermidnight.com - astronomy and astrophotography
http://www.n8xe.com - ham radio
http://www.jasonhissong.com - electronic music composition

2532. bamboo

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-12 05:27:58 UTC
From: rckchp2000
Topic: 2532 Message: 2532

Greetings Hexbeam group,

I've wanted to aquire a Hexbeam for quite awhile, but unanticipated expenses (car, home repairs, etc.) always seem to pop up and diminish my "Hexbeam fund", so I'm considering trying a homebuilt 17meter version. A local aquaintence has bamboo growing on his property (and owes me a few favors)so I'm about ready to approach him with a request for some bamboo. He has live (green) bamboo and also has a pile of cut, dried poles, and my question is.....which is preferable?.....live green or cut dried? Any advice and/or info will be appreciated. Thanks.

Rich K2CPE

2533. RE: [hex-beam] Traffie..old school

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-12 10:50:14 UTC
From: Peter D. Vouvounas
Topic: 2527 Message: 2533

John,

I'm sure everyone on this list would agree that he is a very fine gentlemen and ham.

Now if we could only get him into the current century with Internet access, email communications that would be something.

Regards,
:-[PdV]-:
Peter D. Vouvounas
Vice President & GM
VoIPCO LLC
Ofc: 732.701.1130
Cell: 732.674.4001
98 Meridian Dr
Brick, New Jersey 08724
Mailto: wb3fsr@...

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of bur52
Sent: July 11, 2005 20:50
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Traffie..old school

Hello all...well I have to say that Mr Traffie is a very unique gent. I spoke to him about three weeks ago. It was in interest in one of his beams. I did in fact want to order one, but he informed me that he was in a back order situation for about three weeks. Since then I had gotten side tracked with some other issues. I called today just to appologize for not following up with him. To my pleasant suprise, not only did He say that the back order was caught up...but he had sent the bean out to me !

Now mind you this may not seem like that big of a deal. But keep in my mind..I have not sent him a payment !! Great guy...and I have to belive that he does have a bond with all fellow hams. If the antenna works half as well as he does things that will be enough for me. But I am sure it will perform even better. Kudo's to Me Traffie and his antennas.
JohnB
KB3LXY
73

Yahoo! Groups Links

2534. Re: [hex-beam] Traffie..old school

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-12 11:52:34 UTC
From: bur52@aol.com
Topic: 2527 Message: 2534

Yup !
Maybe his son ? Second generation might be more inclined . But
yes...but it may makes his business take off. He may just have his comfort zones
set at the present level??

Great to do business with him either way !
JohnB
KB3LXY

[Non-text portions of this message have been removed]

2535. RE: [hex-beam] bamboo

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-12 18:12:46 UTC
From: Buck - N4PGW
Topic: 2532 Message: 2535

> -----Original Message-----
> Greetings Hexbeam group,
>
> I've wanted to aquire a Hexbeam for quite awhile, but unanticipated
> expenses (car, home repairs, etc.) always seem to pop up and diminish
> my "Hexbeam fund", so I'm considering trying a homebuilt 17meter
> version. A local aquaintence has bamboo growing on his property (and
> owes me a few favors)so I'm about ready to approach him with a request
> for some bamboo. He has live (green) bamboo and also has a pile of
> cut, dried poles, and my question is.....which is preferable?.....live
> green or cut dried? Any advice and/or info will be appreciated. Thanks.
>
> Rich K2CPE
>

I would choose the dry.
>

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.12/46 - Release Date: 7/11/2005

2536. recycle old RG213 coax

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-13 14:03:48 UTC
From: Colin
Topic: 2536 Message: 2536

Hi All
In the process of revamping my hexbeam i stumbled over some old rg213 coax in the shed and found a few new uses for it.

Short pieces of the solid dilectric once drilled out with a 2.5mm drill bit make great support tubes for the wire at the knees.

The heavy braided screen can be recycled for the feed connections if you stretch and anchor it to the 20m and 10m element bolts.
Brass washers readily solder to it too.

If you have enough i bet you could use it as heavy duty element wires.

Waste not want not :)

2537. Re: [hex-beam] bamboo

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-13 16:50:58 UTC
From: Giancarlo Moda
Topic: 2532 Message: 2537

Hi Rich,

I have some home repair that will keep me with my
mouth open for a long time...hi.

The ideal frame support should be done using fishing
poles (sea fishing) 4 or 5 yards type, with 1st or nad
2nd yard rods removed. Cost in Europe (Italy) is
around 10 (<15) US $ per pole. (20 to 10 meters
multiband).

Bamboo was one of the most important antennas support
in the 50-60s.
You should use a well dried bamboo cane. You should
protect it with some paint additive first and then 3
hands of marine transparent flattening. Then you
should be OK ... with an heavier frame.

I expect to assemble my 5 band X-Beam within September
(hope earlier).

73

Gian
I7SWX

>
> Message: 1
> Date: Tue, 12 Jul 2005 14:12:46 -0400
> From: "Buck - N4PGW" <n4pgw-list1@...>
> Subject: RE: bamboo
>
>
>
> > -----Original Message-----
> > Greetings Hexbeam group,
> >
> > I've wanted to aquire a Hexbeam for quite awhile,
> but unanticipated
> > expenses (car, home repairs, etc.) always seem to
> pop up and diminish
> > my "Hexbeam fund", so I'm considering trying a
> homebuilt 17meter
> > version. A local aquaintence has bamboo growing on
> his property (and
> > owes me a few favors)so I'm about ready to
> approach him with a request

> > for some bamboo. He has live (green) bamboo and
> also has a pile of
> > cut, dried poles, and my question is.....which is
> preferable?.....live
> > green or cut dried? Any advice and/or info will be
> appreciated. Thanks.
> >
> > Rich K2CPE
> >
>
>
> I would choose the dry.
> >
>
> --
> No virus found in this outgoing message.
> Checked by AVG Anti-Virus.
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> Release Date: 7/11/2005
>

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http://mail.yahoo.com

2538. Re: Rotator for 2 element 20 meter monobander Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-13 23:09:49 UTC
From: wo8usa
Topic: 2525 Message: 2538

Gerry,

I use a TV rotar from Lowes. Its been up 2.5 years with no problems.

Only problem---if using a 3 wire cable get heavy cable, not the typical brand. After a few years it will break. Mine has, so I have to take it down just to replace the wires.

Chris WO8USA

--- In hex-beam@yahoogroups.com, gerry nunan <ke5dwm@y...> wrote:
> Hi from San Anton, TX !
>
> Anyone have a recommendation for a rotator to turn this 2 el 20 meter monobander ? also, anyone know what the approximate wind load should be (for sizing the rotator) ..
>
> Thanx ... Gerry K2HIG (ex-KE5DWM)
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]

2539. Hexbeam calculations meaning

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-14 05:31:00 UTC
From: wb5cxc
Topic: 2539 Message: 2539

This is my first post here, but I have been lurking for over a year.

I'm about to embark on building one of these. I have some questions and didn't want to look through all the posts. On the spreadsheet hexbeamcalc2.xls there is the Driven element/reflective element spacing. Is this the spacing from the end of the element to the spreader? Also the Over All element spacing - I assume that this is the spacing from the end of the driven element to the end of the reflector element (gap between them)?

Am I right or is there something else I didn't or don't understand?

Thanks for the help.

Larry
WB5CXC, VR2LB

2540. Re: Rotator for 2 element 20 meter monobander Hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-14 10:38:29 UTC
From: Colin
Topic: 2525 Message: 2540

Hi Gerry
According to Mike`s webpage the 5 band hexbeam has less than 5 sq ft windload (0.45 m2) so a 20m monobander would be somewhat lower than that.
It seems a yaesu G450 could manage twice that amount (1m2 or 10.57sq ft) and maybe even handle a 40m monobander at a push.

Regards Colin

--- In hex-beam@yahoogroups.com, gerry nunan <ke5dwm@y...> wrote:
> Hi from San Anton, TX !
>
> Anyone have a recommendation for a rotator to turn this 2 el 20 meter monobander ? also, anyone know what the approximate wind load should be (for sizing the rotator) ..
>
> Thanx ... Gerry K2HIG (ex-KE5DWM)
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]

2541. bander hf/ and 6 meter single stacked??

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-15 00:49:32 UTC
From: bur52
Topic: 2541 Message: 2541

Hello all..
Well the hex arrived. I must say it may be pricey..but the antenna kit is first class. Very nicely done ! I never realized the detail that goes into it. Sould last a fairly long time.

I plan on getting it up 30-35 feet...and was pondering a 6 meter mono bander stacked on top. What do you think the spaciing should be, to avoid interaction...6-8 feet?? While I am on a roll, might as well get the magic band handled.
JohnB
KB3LXY

2542. Re: [hex-beam] bander hf/ and 6 meter single stacked??

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-15 06:09:53 UTC
From: Darren GØTSM
Topic: 2541 Message: 2542

I had my 6M beam 3ft below my 5 band hexbeam. There was no noticeable
interaction except when the 6M beam was mounted at 90deg, then 17M was screwed.

I'm currently building a new 5 band hexbeam and the new antenna will be
mounted in the middle of a pair or 5 ele 6M beams.

Darren GØTSM

At 00:49 15/07/2005, you wrote:
>Hello all..
> Well the hex arrived. I must say it may be pricey..but the
>antenna kit is first class. Very nicely done ! I never realized the
>detail that goes into it. Sould last a fairly long time.
>
> I plan on getting it up 30-35 feet...and was pondering a
>6 meter mono bander stacked on top. What do you think the spaciing
>should be, to avoid interaction...6-8 feet?? While I am on a roll,
>might as well get the magic band handled.
>JohnB
>KB3LXY
>
>
><?---- LSpots keywords ?> <?---- HM ADS ?>
>
>----------
>YAHOO! GROUPS LINKS
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2543. Re: [hex-beam] bander hf/ and 6 meter single stacked??

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-15 11:55:28 UTC
From: Jason Hissong
Topic: 2541 Message: 2543

John,

From what I understand, it is difficult to put anything directly above the Hexbeam because there is nothing to mount to on top of it. That is the ONLY complaint I would have about this antenna. But I don't stack anything anyway.

If and when I do 6 meters, I will be mounting it to the side of the tower. It definately would be nice to control both antennas with one rotor.

My Hexbeam is about the same height as yours and I have a blast with mine. Let us know when you get the Hexbeam installed and send pictures!!!!

73
Jason

bur52 wrote:

>Hello all..
> Well the hex arrived. I must say it may be pricey..but the
>antenna kit is first class. Very nicely done ! I never realized the
>detail that goes into it. Sould last a fairly long time.
>
> I plan on getting it up 30-35 feet...and was pondering a
>6 meter mono bander stacked on top. What do you think the spaciing
>should be, to avoid interaction...6-8 feet?? While I am on a roll,
>might as well get the magic band handled.
>JohnB
>KB3LXY
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"A long journey starts with the first step and an understanding spouse."
http://www.undermidnight.com - astronomy and astrophotography
http://www.n8xe.com - ham radio
http://www.jasonhissong.com - electronic music composition

2544. Hexbeam Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-15 11:56:51 UTC
From: Jason Hissong
Topic: 2544 Message: 2544

Hey guys,

Is the Hexbeam net still active? I have been kinda out of touch.

73,
Jason N8XE

--

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http://www.undermidnight.com - astronomy and astrophotography
http://www.n8xe.com - ham radio
http://www.jasonhissong.com - electronic music composition

2545. Re: [hex-beam] Hexbeam Net

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-15 12:05:36 UTC
From: Stuart Cameron
Topic: 2544 Message: 2545

Yes,
This would be good

Stuart VK2MIC
----- Original Message -----
From: "Jason Hissong" <jhisson1@...>
To: <hex-beam@yahoogroups.com>
Sent: Friday, July 15, 2005 9:56 PM
Subject: [hex-beam] Hexbeam Net

> Hey guys,
>
> Is the Hexbeam net still active? I have been kinda out of touch.
>
> 73,
> Jason N8XE
>
> --
>
> "A long journey starts with the first step and an understanding spouse."
> http://www.undermidnight.com - astronomy and astrophotography
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> --
> No virus found in this incoming message.
> Checked by AVG Anti-Virus.
> Version: 7.0.323 / Virus Database: 267.8.15/49 - Release Date: 14/07/2005
>
>

2546. Re: hex questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-15 17:19:44 UTC
From: gerry nunan
Topic: 2546 Message: 2546

Hi Dave and Group

I'll have some photos of the 20 meter monobander shortly ... it's still sitting at 10 feet ....

As I was saying, this version uses 3/4 inch PVC .... structurally, it doesn't "flop over" at all, although i had that problem with the fiberglas .... they were fishing pole blanks, but they tapered down too much. the reason i scrapped them was that they kept breaking.

on the PVC version, i am using #10 copper conductor, which is also for structural integrity ... there are two nylon tension ropes on the "open faces of the antenna (forward and reverse) ...I have only a slight bow in the PVC's to take the slack out of the conductors and the perimeter tension is maintained by the two tensioning ropes .... it's very sturdy ... the tips don't move at all, although i notices some sway in the middle of the PVC's. I plan to extend a fixed rigid member of some sort (probably off the hub) to about mid-span, and then install another "inner perimeter of nylon cord (used 3/8" all around) to dampen any mid-span oscillation ....

The only issue i am seeing at the moment is that it's pretty heavy and i'm not sure i can turn it with a cheap-o tv antenna rotator from Radio Shack.

It works really well at 10 feet (although it's not supposed to) ... the SWR is 2:1 flat across most of the band ... it noticably directive, even at the test height ....

I must say that most of the ideas for my hex originated right here at the site ... there's been changes but i couldn't have done it without all of y'all 's help ...

Regards to dave and group ... Gerry K2HIG .. near San Antonio, TX

Alice and Dave Billheimer <Trixie@...> wrote:
Gerry, I have questions about your hex. I am working on a new Homebrew Hexbeam webpage and want to include your hex.

I originally used 3/4 inch pvc and had problems. I found that the ten foot lengths of pvc could "twist" very easily and that the hex would sometimes "flop over" so that the curved up ends of the bent pvc would end up not pointing up, but rather would be "lying on their sides" with the bent ends pointed to the side instead. I hope I am making myself clear. Have you had that experience? Have you done anything to avoid it?

What sort of fiberglass poles had you tried?

Can you send any pictures for the webpage?

How did you handle feeding the beam? Is your feedline inside the 2" pvc mast?

I am absolutely fascinated with the hexbeam. Caleb, WA2JJX and I are talking about writing an article for QST. He has worked up a really great cheap homebrew "tower" for his hex that gets it up 22-24 feet and it works well. He mounted his small rotor at the

base of the "tower" and rotates the whole pole. Says it works wonderfully.

Do you know of anyone else who is homebrewing hex beams? I want to include as many people as possible in the new web page.

Dave W1GQL

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[Non-text portions of this message have been removed]

2547. Frustration

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-14 00:46:59 UTC
From: m44austin
Topic: 2547 Message: 2547

Trying to assemble a hex beam at home, going pretty much by the outline from the Irish website "Hex beam in three hours" (Try three *weeks*!)

I'm trying the antenna as a monoband 20M, just for starters. (I'm a-mechanical enough as it is, nevermind a five-bander.) Got a hub and spreader assembly done. Spreaders are six ten-foot 3/8-inch fiberglass rods spaced 60 degrees around the hub. Wire dimensions are as such: Driven Element - 36 ft 4.75 inches. Reflector - 36 ft, 10.5 inches. Tip Space DE - 3.1875 inches. Tip Space Refl - 4.625 inches. Base of tip-space triangle - 10.25 inches. Plane of the wires above the hub is 34 inches.

The facets of the hexagon come out to be around 112 (DE side) and 113 (refl. side) . Wires are attached at the very ends of the fiberglass rods. Wires at the facets are reasonably taught. Now here's the problem: the "spoke" wires sag noticeable. That can't be right. What's happening?

I hope this is enough information for a knowledgeable person to diagnose my faults (other than dual left-handedness).

Any and all well-meaning suggestions are appreciated.

73s
Mike
AA5X

2548. Re: [hex-beam] Re: hex questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-15 19:33:03 UTC
From: patv@monmouth.com
Topic: 2546 Message: 2548

> Hi Dave and Group
> *snip*
> As I was saying, this version uses 3/4 inch PVC

It must be that it's summer in the northern hemisphere. A lot of folks seem to be doing this and I have also been planning to build a 20m monobander using PVC electrical conduit for the spreaders. What lengths did you use?

Looking forward to seeing the photos.

Pat
WB2GBF

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http://www.monmouth.com/

2549. Re: [hex-beam] Re: hex questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-15 19:43:11 UTC
From: Darren GØTSM
Topic: 2546 Message: 2549

My first effort used 1" black PVC electrical conduit, however, a couple of weeks of hot weather and the spreaders started to lose their strength. The spreaders started to bend down before curving up. As a quick fix I slid 3/4" GRP tube down inside the conduit, this gave the antenna the strength back and stopped it drooping.

Darren

At 19:33 15/07/2005, you wrote:
> > Hi Dave and Group
> > *snip*
> > As I was saying, this version uses 3/4 inch PVC
>
>It must be that it's summer in the northern hemisphere. A lot of folks
>seem to be doing this and I have also been planning to build a 20m
>monobander using PVC electrical conduit for the spreaders. What lengths
>did you use?
>
>Looking forward to seeing the photos.
>
>Pat
>WB2GBF
>
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>----------

2550. Re: Frustration

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-15 20:07:34 UTC
From: dl7io
Topic: 2547 Message: 2550

Hello Mike,
as I understood you have a mechanical problem if the wires sag. Are your spreader to soft?
But nevertheless I have some trouble to understand your writings. What are facets and what is 112 and 113?
regards Holger

> The facets of the hexagon come out to be around 112 (DE side) and 113
> (refl. side) . Wires are attached at the very ends of the fiberglass
> rods. Wires at the facets are reasonably taught. Now here's the
> problem: the "spoke" wires sag noticeable. That can't be right.

2551. Re: Frustration

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-15 20:47:42 UTC
From: Colin
Topic: 2547 Message: 2551

Hi Mike
It sounds like the wire from center support to the knee is sagging
but from the knee to the tip (where the gap is)is tight?

Imho it seems the 3/8" doesn`t have enough "spring" to tension the
inner part of the element legs (the spoke wires?).
The dacron (support) lines are tensioning the hex perimeter which is
why the outer legs (facets?)are tight.

Maybe you could add a 5/8 tube (or similar) over the inner part of
the speader, perhaps 3ft or so, to strengthen it?

Regards Colin

--- In hex-beam@yahoogroups.com, "m44austin" <m44austin@y...> wrote:
> Trying to assemble a hex beam at home, going pretty much by the
> outline from the Irish website "Hex beam in three hours" (Try
three
> *weeks*!)
>
> I'm trying the antenna as a monoband 20M, just for starters. (I'm
a-
> mechanical enough as it is, nevermind a five-bander.) Got a hub
and
> spreader assembly done. Spreaders are six ten-foot 3/8-inch
> fiberglass rods spaced 60 degrees around the hub. Wire dimensions
> are as such: Driven Element - 36 ft 4.75 inches. Reflector - 36
ft,
> 10.5 inches. Tip Space DE - 3.1875 inches. Tip Space Refl - 4.625
> inches. Base of tip-space triangle - 10.25 inches. Plane of the
> wires above the hub is 34 inches.
>
> The facets of the hexagon come out to be around 112 (DE side) and
113
> (refl. side) . Wires are attached at the very ends of the
fiberglass
> rods. Wires at the facets are reasonably taught. Now here's the
> problem: the "spoke" wires sag noticeable. That can't be right.
> What's happening?
>
> I hope this is enough information for a knowledgeable person to
> diagnose my faults (other than dual left-handedness).
>
> Any and all well-meaning suggestions are appreciated.
>
> 73s

> Mike
> AA5X

2552. Re: [hex-beam] Re: hex questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-15 23:53:33 UTC
From: gerry nunan
Topic: 2546 Message: 2552

I used 3/4 in PVC and it worked well .... 24 inch plywood hub, #10 copper conductors .. used standard Home Depot 10 ft lengths

patv@... wrote:> Hi Dave and Group
> *snip*
> As I was saying, this version uses 3/4 inch PVC

It must be that it's summer in the northern hemisphere. A lot of folks seem to be doing this and I have also been planning to build a 20m monobander using PVC electrical conduit for the spreaders. What lengths did you use?

Looking forward to seeing the photos.

Pat
WB2GBF

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[Non-text portions of this message have been removed]

2553. Re: [hex-beam] Re: hex questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 00:16:18 UTC
From: gerry nunan
Topic: 2546 Message: 2553

i will have the complete plans for the PVC hex beam available, with the photos, soon ... we can compare notes ....

gerry ... K2HIG

patv@... wrote:
> Hi Dave and Group
> *snip*
> As I was saying, this version uses 3/4 inch PVC

It must be that it's summer in the northern hemisphere. A lot of folks seem to be doing this and I have also been planning to build a 20m monobander using PVC electrical conduit for the spreaders. What lengths did you use?

Looking forward to seeing the photos.

Pat
WB2GBF

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2554. Re: [hex-beam] Frustration

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 01:00:19 UTC
From: gerry nunan
Topic: 2547 Message: 2554

i had a similar problem .... i was using a 12 " hub initially, but couldn't get the "spoke" elements tight ...

I did a number of things, including scrapping the fiberglass poles and using pretty hefty PVC (3/4 inch) ..... i went to a 24" plywood hub, which gave me about 11 ft before tensioning ... also using #10 solid copper elements, the PVC has a gentle bend in it and the elements help keep the shape right ... i only have two nylon rope tensioners to keep the outside perimeter tight ..... it seems to be structurally sound, everything is in tension .... but the materials make the thing a bit on the heavy side ...

this is a 20 meter monobander, by the way .... considering adding a 15 meter pair of elements to it, both to gain the additional band and also to better stabilize the center area of the spreaders (but more weight) ....

regards to all ... gerry ... K2HIG .... near San Antonio, TX, USA

m44austin <m44austin@...> wrote:
Trying to assemble a hex beam at home, going pretty much by the outline from the Irish website "Hex beam in three hours" (Try three *weeks*!)

I'm trying the antenna as a monoband 20M, just for starters. (I'm a-mechanical enough as it is, nevermind a five-bander.) Got a hub and spreader assembly done. Spreaders are six ten-foot 3/8-inch fiberglass rods spaced 60 degrees around the hub. Wire dimensions are as such: Driven Element - 36 ft 4.75 inches. Reflector - 36 ft, 10.5 inches. Tip Space DE - 3.1875 inches. Tip Space Refl - 4.625 inches. Base of tip-space triangle - 10.25 inches. Plane of the wires above the hub is 34 inches.

The facets of the hexagon come out to be around 112 (DE side) and 113 (refl. side) . Wires are attached at the very ends of the fiberglass rods. Wires at the facets are reasonably taught. Now here's the problem: the "spoke" wires sag noticeable. That can't be right. What's happening?

I hope this is enough information for a knowledgeable person to diagnose my faults (other than dual left-handedness).

Any and all well-meaning suggestions are appreciated.

73s
Mike
AA5X

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[Non-text portions of this message have been removed]

2555. Re: [hex-beam] bander hf/ and 6 meter single stacked??

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 11:24:06 UTC
From: IC-746
Topic: 2541 Message: 2555

Hi John,
the stacking distance between 2 antennas is mostly the
half wave of the band which ist more "high frequently"

In your part means this the stacking size is a minimum
of 3 meter BUT better would be 6 meter.

Enjoy ur Hexbeam and hpe to meet u on 50 MHz.

73 de Mike, DH6JL

Darren G?TSM schrieb:
> I had my 6M beam 3ft below my 5 band hexbeam. There was no noticeable
> interaction except when the 6M beam was mounted at 90deg, then 17M was screwed.
>
> I'm currently building a new 5 band hexbeam and the new antenna will be
> mounted in the middle of a pair or 5 ele 6M beams.
>
>
>
> Darren G?TSM
>
>
>
> At 00:49 15/07/2005, you wrote:
> >Hello all..
> > Well the hex arrived. I must say it may be pricey..but the
> >antenna kit is first class. Very nicely done ! I never realized the
> >detail that goes into it. Sould last a fairly long time.
> >
> > I plan on getting it up 30-35 feet...and was pondering a
> >6 meter mono bander stacked on top. What do you think the spaciing
> >should be, to avoid interaction...6-8 feet?? While I am on a roll,
> >might as well get the magic band handled.
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> >
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2556. Re: [hex-beam] Re: hex questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 14:08:37 UTC
From: gerry nunan
Topic: 2546 Message: 2556

i haven't noticed the 3/4 PVC drooping yet and it's been around 100 F here in south texas for about a month .. I do plan to paint the PVC for UV protection ....

gerry K2HIG

Darren GØTSM <hexbeam@...> wrote:
My first effort used 1" black PVC electrical conduit, however, a couple of weeks of hot weather and the spreaders started to lose their strength. The spreaders started to bend down before curving up. As a quick fix I slid 3/4" GRP tube down inside the conduit, this gave the antenna the strength back and stopped it drooping.

Darren

At 19:33 15/07/2005, you wrote:
> > Hi Dave and Group
> > *snip*
> > As I was saying, this version uses 3/4 inch PVC
>
>It must be that it's summer in the northern hemisphere. A lot of folks
>seem to be doing this and I have also been planning to build a 20m
>monobander using PVC electrical conduit for the spreaders. What lengths
>did you use?
>
>Looking forward to seeing the photos.
>
>Pat
>WB2GBF
>
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2557. Re: [hex-beam] Re: hex questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 14:21:19 UTC
From: Stuart Cameron
Topic: 2546 Message: 2557

I used 1/2 inch diameter wooden dowell rod for my spreaders, which I
painted. Works ok. No problems in summer .

Regards

Stuart VK2MIC

----- Original Message -----
From: "gerry nunan" <ke5dwm@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, July 17, 2005 12:08 AM
Subject: Re: [hex-beam] Re: hex questions

i haven't noticed the 3/4 PVC drooping yet and it's been around 100 F here
in south texas for about a month .. I do plan to paint the PVC for UV
protection ....

gerry K2HIG

Darren G?TSM <hexbeam@...> wrote:
My first effort used 1" black PVC electrical conduit, however, a couple of
weeks of hot weather and the spreaders started to lose their strength. The
spreaders started to bend down before curving up. As a quick fix I slid
3/4" GRP tube down inside the conduit, this gave the antenna the strength
back and stopped it drooping.

Darren

At 19:33 15/07/2005, you wrote:
> > Hi Dave and Group
> > *snip*
> > As I was saying, this version uses 3/4 inch PVC
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>It must be that it's summer in the northern hemisphere. A lot of folks
>seem to be doing this and I have also been planning to build a 20m
>monobander using PVC electrical conduit for the spreaders. What lengths
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>Looking forward to seeing the photos.
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>Pat
>WB2GBF
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Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.16/50 - Release Date: 15/07/2005

2558. Re: hex questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 16:00:17 UTC
From: Colin
Topic: 2546 Message: 2558

Hi Stuart,
I guess almost anything can be used for the spreaders.
The main questions are: the cost and how long will it last.

PVC works but above 23C it begins to lose tensile strength and at
140F becomes a soft noodle.
Another drawback is it could take a "set" in hot weather,resulting in
loss of tensile strength.
Painting it white for uv protection is good but bad for stealth,if
you paint it a dark colour it`ll get pretty hot in the sun.

Wood is good and cheap but the weather will warp it given time.

Cheap telescopic fishing rods also good but are very thin walled
(fragile) and will deteriorate rapidly in the sun (coating flakes off)
unless protected.

My own personal choice is white fibreglass tube: (1m) 19mm dia. x
3.2mm wall and (2.5m)12mm dia. x 2.5mm wall.
18 months outside so far and its still as good as new.

On a different note, what about a "no-spreader" hex?
It occurred to me that a mast with 6 non metallic guyes would support
a hex in a fixed direction if you have enough space for the large
base circle.
The slope of the 6 guyes would provide the correct geometry for
fixing the element wires.
A multiband version would be upside down ie: 20m at the bottom and
10m at the top or could perhaps make a good field day 40m or 80m
fixed azimuth antenna.

Regards Colin

--- In hex-beam@yahoogroups.com, "Stuart Cameron" <stuness@e...>
wrote:
> I used 1/2 inch diameter wooden dowell rod for my spreaders, which
I
> painted. Works ok. No problems in summer .
>
> Regards
>
> Stuart VK2MIC
>
>
> ----- Original Message -----
> From: "gerry nunan" <ke5dwm@y...>
> To: <hex-beam@yahoogroups.com>

> Sent: Sunday, July 17, 2005 12:08 AM
> Subject: Re: [hex-beam] Re: hex questions
>
>
> i haven't noticed the 3/4 PVC drooping yet and it's been around 100
F here
> in south texas for about a month .. I do plan to paint the PVC for
UV
> protection ....
>
> gerry K2HIG
>
> Darren GØTSM <hexbeam@g...> wrote:
> My first effort used 1" black PVC electrical conduit, however, a
couple of
> weeks of hot weather and the spreaders started to lose their
strength. The
> spreaders started to bend down before curving up. As a quick fix I
slid
> 3/4" GRP tube down inside the conduit, this gave the antenna the
strength
> back and stopped it drooping.
>
> Darren
>
>
>
> At 19:33 15/07/2005, you wrote:
> > > Hi Dave and Group
> > > *snip*
> > > As I was saying, this version uses 3/4 inch PVC
> >
> >It must be that it's summer in the northern hemisphere. A lot of
folks
> >seem to be doing this and I have also been planning to build a 20m
> >monobander using PVC electrical conduit for the spreaders. What
lengths
> >did you use?
> >
> >Looking forward to seeing the photos.
> >
> >Pat
> >WB2GBF
> >
> >
> >
> >----------
> >This message was sent using Monmouth Internet MI-Webmail.
> ><http://www.monmouth.com/>http://www.monmouth.com/
> >

> >
> ><?---- LSpots keywords ?> <?---- HM ADS ?>
> >
> >----------
> >YAHOO! GROUPS LINKS
> >
> > * Visit your group "<http://groups.yahoo.com/group/hex-
beam>hex-beam"
> > on the web.
> > *
> > * To unsubscribe from this group, send an email to:
> > *
> >
> <mailto:hex-beam-unsubscribe@yahoogroups.com?
subject=Unsubscribe>hex-beam-un
> subscribe@yahoogroups.com
> >
> > *
> > * Your use of Yahoo! Groups is subject to the
> > <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
> >
> >
> >----------
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
>
> Visit your group "hex-beam" on the web.
>
> To unsubscribe from this group, send an email to:
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> Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> ---
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>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

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> Yahoo! Groups Links
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>
> --
> No virus found in this incoming message.
> Checked by AVG Anti-Virus.
> Version: 7.0.323 / Virus Database: 267.8.16/50 - Release Date:
15/07/2005

2559. Re: [hex-beam] Re: hex questions white fibreglass tube

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 17:30:20 UTC
From: Tom King
Topic: 2546 Message: 2559

Where do you get the white fibreglass tube? and how
much?

--- Colin <djcol1@...> wrote:

> Hi Stuart,
> I guess almost anything can be used for the
> spreaders.
> The main questions are: the cost and how long will
> it last.
>
> PVC works but above 23C it begins to lose tensile
> strength and at
> 140F becomes a soft noodle.
> Another drawback is it could take a "set" in hot
> weather,resulting in
> loss of tensile strength.
> Painting it white for uv protection is good but bad
> for stealth,if
> you paint it a dark colour it`ll get pretty hot in
> the sun.
>
> Wood is good and cheap but the weather will warp it
> given time.
>
> Cheap telescopic fishing rods also good but are very
> thin walled
> (fragile) and will deteriorate rapidly in the sun
> (coating flakes off)
> unless protected.
>
> My own personal choice is white fibreglass tube:
> (1m) 19mm dia. x
> 3.2mm wall and (2.5m)12mm dia. x 2.5mm wall.
> 18 months outside so far and its still as good as
> new.
>
> On a different note, what about a "no-spreader" hex?
> It occurred to me that a mast with 6 non metallic
> guyes would support
> a hex in a fixed direction if you have enough space
> for the large
> base circle.
> The slope of the 6 guyes would provide the correct
> geometry for

> fixing the element wires.
> A multiband version would be upside down ie: 20m at
> the bottom and
> 10m at the top or could perhaps make a good field
> day 40m or 80m
> fixed azimuth antenna.
>
> Regards Colin
>
>
>
> --- In hex-beam@yahoogroups.com, "Stuart Cameron"
> <stuness@e...>
> wrote:
> > I used 1/2 inch diameter wooden dowell rod for my
> spreaders, which
> I
> > painted. Works ok. No problems in summer .
> >
> > Regards
> >
> > Stuart VK2MIC
> >
> >
> > ----- Original Message -----
> > From: "gerry nunan" <ke5dwm@y...>
> > To: <hex-beam@yahoogroups.com>
> > Sent: Sunday, July 17, 2005 12:08 AM
> > Subject: Re: [hex-beam] Re: hex questions
> >
> >
> > i haven't noticed the 3/4 PVC drooping yet and
> it's been around 100
> F here
> > in south texas for about a month .. I do plan to
> paint the PVC for
> UV
> > protection ....
> >
> > gerry K2HIG
> >
> > Darren G?TSM <hexbeam@g...> wrote:
> > My first effort used 1" black PVC electrical
> conduit, however, a
> couple of
> > weeks of hot weather and the spreaders started to
> lose their
> strength. The
> > spreaders started to bend down before curving up.
> As a quick fix I

> slid
> > 3/4" GRP tube down inside the conduit, this gave
> the antenna the
> strength
> > back and stopped it drooping.
> >
> > Darren
> >
> >
> >
> > At 19:33 15/07/2005, you wrote:
> > > > Hi Dave and Group
> > > > *snip*
> > > > As I was saying, this version uses 3/4 inch
> PVC
> > >
> > >It must be that it's summer in the northern
> hemisphere. A lot of
> folks
> > >seem to be doing this and I have also been
> planning to build a 20m
> > >monobander using PVC electrical conduit for the
> spreaders. What
> lengths
> > >did you use?
> > >
> > >Looking forward to seeing the photos.
> > >
> > >Pat
> > >WB2GBF
> > >
> > >
> > >
> > >----------
> > >This message was sent using Monmouth Internet
> MI-Webmail.
> >
> ><http://www.monmouth.com/>http://www.monmouth.com/
> > >
> > >
> > ><?---- LSpots keywords ?> <?---- HM ADS ?>
> > >
> > >----------
> > >YAHOO! GROUPS LINKS
> > >
> > > * Visit your group
> "<http://groups.yahoo.com/group/hex-
> beam>hex-beam"
> > > on the web.
> > > *

> > > * To unsubscribe from this group, send an
> email to:
> > > *
> > >
> > <mailto:hex-beam-unsubscribe@yahoogroups.com?
> subject=Unsubscribe>hex-beam-un
> > subscribe@yahoogroups.com
> > >
> > > *
> > > * Your use of Yahoo! Groups is subject to
> the
> > > <http://docs.yahoo.com/info/terms/>Yahoo! Terms
> of Service.
> > >
> > >
> > >----------
> >
> >
> >
> > ---------------------------------
> > YAHOO! GROUPS LINKS
> >
> >
> > Visit your group "hex-beam" on the web.
> >
> > To unsubscribe from this group, send an email
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> >
> > Your use of Yahoo! Groups is subject to the
> Yahoo! Terms of
> Service.
> >
> >
> > ---------------------------------
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> >
> > ____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam
> protection around
> > http://mail.yahoo.com
> >
> > [Non-text portions of this message have been
> removed]
> >
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> > Yahoo! Groups Links
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=== message truncated ===

_____
Start your day with Yahoo! - make it your home page
http://www.yahoo.com/r/hs

2560. MODERATOR MESSAGE

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 19:06:56 UTC
From: w4wb
Topic: 2560 Message: 2560

Folks,

Please sign you messages with name and call sign. I have pass through some recently, but those folks remain on moderated status.

Tnx es 73,
Barry W4WB
Moderator

2561. Re: hex questions white fibreglass tube

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 19:35:22 UTC
From: Colin
Topic: 2546 Message: 2561

Hi Tom
I`m located in the uk so it won`t be of much help to you.
I`d guess you`ll have a lot more suppliers in your part of the world
which helps keep the price competitive.
Over here its hard to find at any price, but I do recall it cost
considerably less than £100 for all of it (including tax and shipping).

Regards Colin

--- In hex-beam@yahoogroups.com, Tom King <tommignon@y...> wrote:
> Where do you get the white fibreglass tube? and how
> much?

2562. Re: [hex-beam] Re: hex questions white fibreglass tube

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 19:55:15 UTC
From: Darren GØTSM
Topic: 2546 Message: 2562

Here in the UK I get my GRP tube from

http://www.sandpiperaerials.co.uk/

Up to 3M long spreaders use their 1/2" tube,

Darren

At 19:35 16/07/2005, you wrote:
>Hi Tom
>I`m located in the uk so it won`t be of much help to you.
>I`d guess you`ll have a lot more suppliers in your part of the world
>which helps keep the price competitive.
>Over here its hard to find at any price, but I do recall it cost
>considerably less than £100 for all of it (including tax and shipping).
>
>Regards Colin
>
>--- In hex-beam@yahoogroups.com, Tom King <tommignon@y...> wrote:
> > Where do you get the white fibreglass tube? and how
> > much?
>
>
>
>
>
>----------
>YAHOO! GROUPS LINKS
>
> * Visit your group "<http://groups.yahoo.com/group/hex-beam>hex-beam"
> on the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>hex-beam-unsubscribe@ya
hoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>----------

2563. Re: Frustration

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 20:53:01 UTC
From: m44austin
Topic: 2547 Message: 2563

Holger,

Sorry about my lack of clarity. That's what I get for writing-while-frustrated.

The numbers 112 and 113 refer to the measurement in inches for the flat sections -- the flats or "facets" -- of the hexagon. This is measured between tips of the spreaders. On the DE side, there is a space of 112 inches between the spreaders; on the REFL side, their is a space of 114 inches between the tips of the spreaders. In my antenna, the wires are attached at the tips of each spreader.

Indeed I do have a mechanical problem. I lack mechanical talent! I do, however, have a speculative diagnosis for my problem. I assumed that the distance from the hub to the "knee" (the tip of the spreaders, in my case) must be equal. If I were to let out some of the hub-to-knee wires and increase the distance between the tips of the spreaders, I can achieve a reasonably taught distribution of wires all around the hexagon. Is it important for SWR, gain or radiation pattern to have equal lengths of wires from hub to knee and from knee to the end of an element?

Regards,
Mike
AA5X

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@q...> wrote:
> Hello Mike,
> as I understood you have a mechanical problem if the wires sag. Are
> your spreader to soft?
> But nevertheless I have some trouble to understand your writings.
What
> are facets and what is 112 and 113?
> regards Holger
>
> > The facets of the hexagon come out to be around 112 (DE side) and
113
> > (refl. side) . Wires are attached at the very ends of the
fiberglass
> > rods. Wires at the facets are reasonably taught. Now here's the
> > problem: the "spoke" wires sag noticeable. That can't be right.

2564. Re: Frustration

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 21:07:24 UTC
From: m44austin
Topic: 2547 Message: 2564

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:

Hi Colin. Thanks for replying.

> Hi Mike
> It sounds like the wire from center support to the knee is sagging
> but from the knee to the tip (where the gap is)is tight?

Exactly.

>
> Imho it seems the 3/8" doesn`t have enough "spring" to tension the
> inner part of the element legs (the spoke wires?).

You interpret my jargon very well. Hub-to-knee is the "spoke wires", as I called them. And you may very well be right about the spreaders. Perhaps the 3/8ths rods aren't stiff enough.

However, even with 3/8ths rods, I can get a suitable amount of tension if I make the wire lengths from hub to knee slightly shorter than the wire segment from knee to element tip. This creates less of a bow in the spreader rods, but it does distribute the tension through all the "spoke wires" and "facet wires".

Will doing this have an undesireable effect on gain, radiation pattern or SWR?

> The dacron (support) lines are tensioning the hex perimeter which
> is why the outer legs (facets?)are tight.

Possibly. Like I've tried to describe, I lept to the assumption that all segments of this wires must be roughly equal: hub-to-knee length equals knee-to-element-tip length. In my current configuration, I've got the facets on the driven side at 112 inches from spreader tip to spreader tip. I've got the facets on the driven element side at 113 inches from spreader tip to spreader tip. The sections on each side between the driven element and the reflector are both 112 inches of twine. The more I think about it, the more I'm convincing myself that such emphasis on equal spacing serves no purpose. Is this true?

>
> Maybe you could add a 5/8 tube (or similar) over the inner part of
> the speader, perhaps 3ft or so, to strengthen it?

That's an excellent idea! Once I get the spacing question put to rest, I might do just that, even if only for the extra support.

Regards,
Mike
AA5X

2565. Re: Frustration

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 21:21:41 UTC
From: m44austin
Topic: 2547 Message: 2565

Gerry,

Thanks for the reply. I'm working on debunking (or confirming) my belief that the "spokes" and "facets" must be pretty much equal and length. When I do this, the "spokes" sag. When I let out the spokes, I get longer "facets" than spokes, but the tension works out reasonably well, even with 3/8ths-inch fiberglass rods.

My hub is assembled from the "wheels" of a wire spool -- plywood circles about 15 inches in diameter. I've cut grooves on each side to secure the rods, strapped down the rods with tie wraps, and secured the two grooved, plywood circles over the rods. After all this, the distance from the center of the hub to the tip of a spreader rod is just over ten feet.

My assembly seems reasonably sound structurally, although I might be inclined to take it down when a hurricane gets a little too close for comfort. The sagging problem is surely the result of my mis-interpretation of something the construction of a hex beam antenna. If the problem isn't in the equal-spacing assumptions, then I'll keep on looking.

Interesting about the #10 solid copper elements!

Regards,
Mike
AA5X

--- In hex-beam@yahoogroups.com, gerry nunan <ke5dwm@y...> wrote:
> i had a similar problem .... i was using a 12 " hub initially, but couldn't get the "spoke" elements tight ...
>
> I did a number of things, including scrapping the fiberglass poles and using pretty hefty PVC (3/4 inch) ..... i went to a 24" plywood hub, which gave me about 11 ft before tensioning ... also using #10 solid copper elements, the PVC has a gentle bend in it and the elements help keep the shape right ... i only have two nylon rope tensioners to keep the outside perimeter tight ..... it seems to be structurally sound, everything is in tension .... but the materials make the thing a bit on the heavy side ...
>
> this is a 20 meter monobander, by the way .... considering adding a 15 meter pair of elements to it, both to gain the additional band and also to better stabilize the center area of the spreaders (but more weight) ....
>

> regards to all ... gerry ... K2HIG .... near San Antonio, TX, USA
>

2566. Re: [hex-beam] MODERATOR MESSAGE

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-16 23:53:22 UTC
From: bur52@aol.com
Topic: 2560 Message: 2566

Sorry..will do
JohnB
KB3LXY

[Non-text portions of this message have been removed]

2567. Re: hex questions white fibreglass tube

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-17 02:06:55 UTC
From: Colin
Topic: 2546 Message: 2567

Hi Darren
I checked out the sandpiper site,ideal if they`re local to you and
you only need a small amount.
I recently ordered 6x 5mtr lengths of 12mm od (7.5mm id) and it cost
£78.50 inc the vat and delivery.
They sent it by overnight train/huge lorry in 5.2mtr lengths even
though i asked for 12x 2.5m to make it more compact.

http://www.rbjplastics.com/index.htm

Regards Colin

--- In hex-beam@yahoogroups.com, Darren GØTSM <hexbeam@g...> wrote:
> Here in the UK I get my GRP tube from
>
> http://www.sandpiperaerials.co.uk/
>
> Up to 3M long spreaders use their 1/2" tube,
>
> Darren
>
>
> At 19:35 16/07/2005, you wrote:
> >Hi Tom
> >I`m located in the uk so it won`t be of much help to you.
> >I`d guess you`ll have a lot more suppliers in your part of the
world
> >which helps keep the price competitive.
> >Over here its hard to find at any price, but I do recall it cost
> >considerably less than £100 for all of it (including tax and
shipping).
> >
> >Regards Colin
> >
> >--- In hex-beam@yahoogroups.com, Tom King <tommignon@y...> wrote:
> > > Where do you get the white fibreglass tube? and how
> > > much?
> >
> >
> >
> >
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> >----------
> >YAHOO! GROUPS LINKS
> >
> > * Visit your group "<http://groups.yahoo.com/group/hex-

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subject=Unsubscribe>hex-beam-unsubscribe@yahoogroups.com
> >
> > *
> > * Your use of Yahoo! Groups is subject to the
> > <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
> >
> >
> >----------

2568. Re: MODERATOR MESSAGE

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-17 02:27:04 UTC
From: Colin
Topic: 2560 Message: 2568

Hi Barry
Although i`ve been around the forum for a good 2 years,
I only recently took the exam and am waiting on a callsign being
allocated by OFCOM,which they say could take upto 4 weeks.

I did the full RAE course at college around 20yrs ago, but didn`t sit
the examination.
By strange coincidence my current instructor (G0RCI - Alan) was on that
very same course.
As soon as i receive the callsign i will certainly add it.
I hope that is ok with you.

Regards Colin

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> Folks,
>
> Please sign you messages with name and call sign. I have pass
through
> some recently, but those folks remain on moderated status.
>
> Tnx es 73,
> Barry W4WB
> Moderator

2569. Re: [hex-beam] Re: MODERATOR MESSAGE

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-17 09:50:39 UTC
From: Mark Robinson
Topic: 2560 Message: 2569

Colin,

Congratulations

Mark N1UK G3ZZM

----- Original Message -----
From: "Colin" <djcol1@...>
To: <hex-beam@yahoogroups.com>
Sent: Saturday, 16 July, 2005 10:27 PM
Subject: [hex-beam] Re: MODERATOR MESSAGE

> Hi Barry
> Although i`ve been around the forum for a good 2 years,
> I only recently took the exam and am waiting on a callsign being
> allocated by OFCOM,which they say could take upto 4 weeks.
>
> I did the full RAE course at college around 20yrs ago, but didn`t sit
> the examination.
> By strange coincidence my current instructor (G0RCI - Alan) was on that
> very same course.
> As soon as i receive the callsign i will certainly add it.
> I hope that is ok with you.
>
> Regards Colin
>
> --- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> > Folks,
> >
> > Please sign you messages with name and call sign. I have pass
> through
> > some recently, but those folks remain on moderated status.
> >
> > Tnx es 73,
> > Barry W4WB
> > Moderator
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

>
>

2570. Re: Frustration

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-17 11:04:54 UTC
From: dl7io
Topic: 2547 Message: 2570

Hello Mike,
the knee element supprts are not at the same distances. They vary a bit. If you put 3 spreaders together to measure you have the knee of the radiator spreader closest to the base plate, than comes the endisolator point and the element leading bush for the reflector element is the most far away positioned one from the baseplate. I suggest to move the hose clamps or whatever you use the way to get the wire not to sag. But please remember there is only one element which is doing a little bit of work in the antenna and this is top element e.g. 20m for a 20-10m version. There are no forces acting in the antenna. Moving this points does not serious infact the features of the antenna. The only critical distances are between 10&12m because they are already so close together.
I hope this helps.
Regards Holger, DL7IO

PS. Will be offline for the next 3 weeks because of holidays.
CU in RSGB IOTA Contest 30./31. July from EU-052, SV8/DL7IO/p

2571. Re: MODERATOR MESSAGE

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-17 13:26:49 UTC
From: Colin
Topic: 2560 Message: 2571

Mark
Thanks for the kind words.
I`m looking forward to testing the hexbeam on tx (qrp), it`ll make a
nice change from SWL mode.

Regards Colin

--- In hex-beam@yahoogroups.com, "Mark Robinson" <markrob@m...> wrote:
> Colin,
>
> Congratulations
>
>
> Mark N1UK G3ZZM
>
>
> ----- Original Message -----
> From: "Colin" <djcol1@y...>
> To: <hex-beam@yahoogroups.com>
> Sent: Saturday, 16 July, 2005 10:27 PM
> Subject: [hex-beam] Re: MODERATOR MESSAGE
>
>
> > Hi Barry
> > Although i`ve been around the forum for a good 2 years,
> > I only recently took the exam and am waiting on a callsign being
> > allocated by OFCOM,which they say could take upto 4 weeks.
> >
> > I did the full RAE course at college around 20yrs ago, but didn`t
sit
> > the examination.
> > By strange coincidence my current instructor (G0RCI - Alan) was
on that
> > very same course.
> > As soon as i receive the callsign i will certainly add it.
> > I hope that is ok with you.
> >
> > Regards Colin
> >
> > --- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> > > Folks,
> > >
> > > Please sign you messages with name and call sign. I have pass
> > through
> > > some recently, but those folks remain on moderated status.

> > >
> > > Tnx es 73,
> > > Barry W4WB
> > > Moderator
> >
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> >
> > Yahoo! Groups Links
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2572. Re: Frustration

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-17 20:12:28 UTC
From: m44austin
Topic: 2547 Message: 2572

Hi Holger,

Again thanks for the guidance. I'm having a bit of trouble visualizing your recommendations, but that's a result of my failure to adequately describe the problem in the first place. I'll try again.

As you know, the wires form two letter W's: one piece of wire bent at acute angles three times to form a whole "W" (the reflector), while the opposing W consist of two V's joined by the feedline. In my assembly, I've assumed that each straight-line section of a W or a V, the wire length must be equal. In other words, the length of the wire segment from the hub to the "knee" must be the same as distance between spreaders (including the "tip gap). When I do this, the hub-to-knee segment (what I called the "spoke") sags.

Based on your response and others, I'm reading that my assumption is wrong about equal wire lengths. I shall go back to the drawing board, while I continue to invite comment from anyone who cares to contribute.

Enjoy your holidays!

Regards,
Mike
AA5X

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
> Hello Mike,
> the knee element supprts are not at the same distances. They vary a
> bit. If you put 3 spreaders together to measure you have the knee
of
> the radiator spreader closest to the base plate, than comes the
> endisolator point and the element leading bush for the reflector
> element is the most far away positioned one from the baseplate. I
> suggest to move the hose clamps or whatever you use the way to get
the
> wire not to sag. But please remember there is only one element
which is
> doing a little bit of work in the antenna and this is top element
e.g.
> 20m for a 20-10m version. There are no forces acting in the antenna.
> Moving this points does not serious infact the features of the
antenna.
> The only critical distances are between 10&12m because they are
already

> so close together.
> I hope this helps.
> Regards Holger, DL7IO
>
> PS. Will be offline for the next 3 weeks because of holidays.
> CU in RSGB IOTA Contest 30./31. July from EU-052, SV8/DL7IO/p

2573. Re: Frustration

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-17 23:54:20 UTC
From: Colin
Topic: 2547 Message: 2573

Hi Mike
Do you have a small tube that the wire can run through freely, attached to the spreader at the turning point?

Once you set the tip gap.. the wire should adjust itself by taking or giving up slack via the small tube (driven by the spring of the spreader).
Solid copper wire doesn`t do this very well so flexible wire (flexweave)is probably the best way to go.

Once you have roughly equalised the tension on both parts of the "V", all you have to do then is move the small tube up or down the spreader to ensure the wire is horizontal.

If the wires are the same length and the tip gaps are equal everything else should fall into place automatically

....in theory :)

--- In hex-beam@yahoogroups.com, "m44austin" <m44austin@y...> wrote:
> Hi Holger,
>
> Again thanks for the guidance. I'm having a bit of trouble
> visualizing your recommendations, but that's a result of my failure
> to adequately describe the problem in the first place. I'll try
> again.
>
> As you know, the wires form two letter W's: one piece of wire bent
at
> acute angles three times to form a whole "W" (the reflector), while
> the opposing W consist of two V's joined by the feedline. In my
> assembly, I've assumed that each straight-line section of a W or a
V,
> the wire length must be equal. In other words, the length of the
> wire segment from the hub to the "knee" must be the same as
distance
> between spreaders (including the "tip gap). When I do this, the
hub-
> to-knee segment (what I called the "spoke") sags.
>
> Based on your response and others, I'm reading that my assumption
is
> wrong about equal wire lengths. I shall go back to the drawing
> board, while I continue to invite comment from anyone who cares to
> contribute.
>

> Enjoy your holidays!
>
> Regards,
> Mike
> AA5X
>
>
> --- In hex-beam@yahoogroups.com, "dl7io" <dl7io@y...> wrote:
> > Hello Mike,
> > the knee element supprts are not at the same distances. They vary
a
> > bit. If you put 3 spreaders together to measure you have the knee
> of
> > the radiator spreader closest to the base plate, than comes the
> > endisolator point and the element leading bush for the reflector
> > element is the most far away positioned one from the baseplate. I
> > suggest to move the hose clamps or whatever you use the way to
get
> the
> > wire not to sag. But please remember there is only one element
> which is
> > doing a little bit of work in the antenna and this is top element
> e.g.
> > 20m for a 20-10m version. There are no forces acting in the
antenna.
> > Moving this points does not serious infact the features of the
> antenna.
> > The only critical distances are between 10&12m because they are
> already
> > so close together.
> > I hope this helps.
> > Regards Holger, DL7IO
> >
> > PS. Will be offline for the next 3 weeks because of holidays.
> > CU in RSGB IOTA Contest 30./31. July from EU-052, SV8/DL7IO/p

2574. Re: MODERATOR MESSAGE

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-18 02:53:53 UTC
From: w4wb
Topic: 2560 Message: 2574

FB Colin. Congratulations!
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
> Hi Barry
> Although i`ve been around the forum for a good 2 years,
> I only recently took the exam and am waiting on a callsign being
> allocated by OFCOM,which they say could take upto 4 weeks.
>
> I did the full RAE course at college around 20yrs ago, but didn`t
sit
> the examination.
> By strange coincidence my current instructor (G0RCI - Alan) was on
that
> very same course.
> As soon as i receive the callsign i will certainly add it.
> I hope that is ok with you.
>
> Regards Colin
>
> --- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> > Folks,
> >
> > Please sign you messages with name and call sign. I have pass
> through
> > some recently, but those folks remain on moderated status.
> >
> > Tnx es 73,
> > Barry W4WB
> > Moderator

2575. Re: [hex-beam] Re: MODERATOR MESSAGE

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-18 03:10:30 UTC
From: John Lepire
Topic: 2560 Message: 2575

same here congrats and hope you enjoy the bands 73's john kd5dfm
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Sunday, July 17, 2005 9:53 PM
Subject: [hex-beam] Re: MODERATOR MESSAGE

FB Colin. Congratulations!
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
> Hi Barry
> Although i`ve been around the forum for a good 2 years,
> I only recently took the exam and am waiting on a callsign being
> allocated by OFCOM,which they say could take upto 4 weeks.
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> I did the full RAE course at college around 20yrs ago, but didn`t
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> the examination.
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that
> very same course.
> As soon as i receive the callsign i will certainly add it.
> I hope that is ok with you.
>
> Regards Colin
>
> --- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> > Folks,
> >
> > Please sign you messages with name and call sign. I have pass
> through
> > some recently, but those folks remain on moderated status.
> >
> > Tnx es 73,
> > Barry W4WB
> > Moderator

YAHOO! GROUPS LINKS

a.. Visit your group "hex-beam" on the web.

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2576. Re: MODERATOR MESSAGE

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-18 09:01:22 UTC
From: Colin
Topic: 2560 Message: 2576

Thanks John and Barry,
Hopefully i`ll hear you on the bands or perhaps the hexbeam net.
Luckily the hexbeam gives me a good start and a few bands to play on.
I have an LDG AT11-MP tuner so that might provide me with a few more.
A nice compact antenna farm to keep the wife and the neighbours happy.

Regards Colin

--- In hex-beam@yahoogroups.com, "John Lepire" <kd5dfm@b...> wrote:
> same here congrats and hope you enjoy the bands 73's john kd5dfm
> ----- Original Message -----
> From: w4wb
> To: hex-beam@yahoogroups.com
> Sent: Sunday, July 17, 2005 9:53 PM
> Subject: [hex-beam] Re: MODERATOR MESSAGE
>
>
> FB Colin. Congratulations!
> 73,
> Barry W4WB
>
> --- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
> > Hi Barry
> > Although i`ve been around the forum for a good 2 years,
> > I only recently took the exam and am waiting on a callsign
being
> > allocated by OFCOM,which they say could take upto 4 weeks.
> >
> > I did the full RAE course at college around 20yrs ago, but
didn`t
> sit
> > the examination.
> > By strange coincidence my current instructor (G0RCI - Alan) was
on
> that
> > very same course.
> > As soon as i receive the callsign i will certainly add it.
> > I hope that is ok with you.
> >
> > Regards Colin
> >
> > --- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> > > Folks,
> > >
> > > Please sign you messages with name and call sign. I have

pass
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> > > some recently, but those folks remain on moderated status.
> > >
> > > Tnx es 73,
> > > Barry W4WB
> > > Moderator
>
>
>
>
> ----------

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "hex-beam" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> ----------

>
>
>
>
> [Non-text portions of this message have been removed]

2577. Re: Frustration

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-18 16:46:02 UTC
From: m44austin
Topic: 2547 Message: 2577

Colin,

To secure the wires to the spreader, I'm using black, UV-resistant cable ties connected to a piece of hose strapped to the ends of the spreaders. The set-up isn't as sound as it could be, but it's cheap, light and relatively easy to assemble (and disassemble). I'm doing mainly this because this is the first time I've built one of these antennas, and I anticipate many tweaks and adjustments ahead. When I settle on a final configuration, I may replace the cable ties with something more substantial.

Thanks to the gracious advice from you and others, I've abandoned the assumption that the lengths of each wire segment (hub-to-knee, etc.) mus be equal. I put a bit of slack in the anchoring cable ties, and the antenna shape and wire tension did indeed sort themselves out quite well, just as you suggested.

I tried for a while to hoist the thing atop a 17-foot stack of PVC pipes, starting at two inches diameter and tapering down to 1 1/4 inch at the antenna hub. I'm unsuccessful in securing it so far, but I'll try again another fine day. By the way, this experience has taught me what it might be like to wrestle a giant spider!

Regards,
Mike
AA5X

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
> Hi Mike
> Do you have a small tube that the wire can run through freely,
> attached to the spreader at the turning point?
>
> Once you set the tip gap.. the wire should adjust itself by taking
or
> giving up slack via the small tube (driven by the spring of the
> spreader).
> Solid copper wire doesn`t do this very well so flexible wire
> (flexweave)is probably the best way to go.
>
> Once you have roughly equalised the tension on both parts of
the "V",
> all you have to do then is move the small tube up or down the
> spreader to ensure the wire is horizontal.
>
> If the wires are the same length and the tip gaps are equal
> everything else should fall into place automatically

>
> ....in theory :)
>

2578. Spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-18 19:44:29 UTC
From: on6ec
Topic: 1249 Message: 2578

Hi Group,
Does anyone from the UK uses the Glass Fibre Reinforced Tubes with O.D. 19.0mm (3/4")and 12.7mm I.D. (1/2"), from
http://www.rbjplastics.com/index.htm
I was wondering if this tube will bend a little? If it is too stiff, i can't start off with a slight bend to get the right antenna shape. The plan is to build a 40 - 20 - 17 -(15)mtr Hex starting with a section (1.66mtr) of this size and then go over to 5 mtr long sections of O.D. 12.0mm and I.D. 7.5mm or O.D 12.7mm (1/2") and I.D. 6.35mm
Any experience? Thanks.
Ed ON6EC

2579. Re: Spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-19 00:12:22 UTC
From: Colin
Topic: 1249 Message: 2579

Hi Ed
I am using the 12mm (2.25mm wall)instead of 12.7mm, as its a nice
sliding fit,bends well and is still very strong/ rigid.

The 19mm (3.2mm wall) doesn`t bend much, especially in very short
lengths ie: <1m .. its almost like a steel tube of equal wall thickness!

I had to put small wedges underneath it on the mounting plate to raise
the angle for the 10m elements, but for a long 40m spreader i think it
would work very well, from memory a full 5m length of 19mm is quite
flexible.
I do remember that 1.65m lengths of the 19mm and 12mm telescoped
together weigh exactly 0.7kg.
I personally think the 6.35mm would be too flexible.

Regards Colin

--- In hex-beam@yahoogroups.com, "on6ec" <edcuypers@p...> wrote:
> Hi Group,
> Does anyone from the UK uses the Glass Fibre Reinforced Tubes with
O.D.
> 19.0mm (3/4")and 12.7mm I.D. (1/2"), from
> http://www.rbjplastics.com/index.htm
> I was wondering if this tube will bend a little? If it is too stiff,
i
> can't start off with a slight bend to get the right antenna shape.
The
> plan is to build a 40 - 20 - 17 -(15)mtr Hex starting with a section
> (1.66mtr) of this size and then go over to 5 mtr long sections of
> O.D. 12.0mm and I.D. 7.5mm or O.D 12.7mm (1/2") and I.D. 6.35mm
> Any experience? Thanks.
> Ed ON6EC

2580. Re: [hex-beam] Spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-19 03:14:37 UTC
From: Tom King
Topic: 1249 Message: 2580

Still has anyone come up with a source for the
Spredders in the NW area of USA?

Tom King
AC7WD

--- on6ec <edcuypers@...> wrote:

> Hi Group,
> Does anyone from the UK uses the Glass Fibre
> Reinforced Tubes with O.D.
> 19.0mm (3/4")and 12.7mm I.D. (1/2"), from
> http://www.rbjplastics.com/index.htm
> I was wondering if this tube will bend a little? If
> it is too stiff, i
> can't start off with a slight bend to get the right
> antenna shape. The
> plan is to build a 40 - 20 - 17 -(15)mtr Hex
> starting with a section
> (1.66mtr) of this size and then go over to 5 mtr
> long sections of
> O.D. 12.0mm and I.D. 7.5mm or O.D 12.7mm (1/2") and
> I.D. 6.35mm
> Any experience? Thanks.
> Ed ON6EC
>
>
>

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2581. Toroids or not??

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-19 17:48:28 UTC
From: bur52
Topic: 2581 Message: 2581

Hello all
It took about an hout to assemble. But it is done. One question..I have not erected it yet, but was wondering if I need the teroids? They were not with the antenna kit. I was just considering making a RF trap with some five inch pvc pipe ansd five coils around it..or may not need it at all. Any thoughts before I put it up??????
JohnB
KB3LXY

2582. Re: [hex-beam] Toroids or not??

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-19 17:50:17 UTC
From: bur52@aol.com
Topic: 2581 Message: 2582

...erah..an hour that was !

[Non-text portions of this message have been removed]

2583. new hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-20 07:53:00 UTC
From: ant9845
Topic: 2583 Message: 2583

Hi all.
I finished the 20m mono Hexbeam last week and it is now on top of a
45ft wind up tower
(see photo in my folder vk2cap)
A thank you to Holger, DL7IO for the good info I found in his folder I
would not have
been able to build this beam without it.
Regards to all Henning vk2cap.

2584. Re: [hex-beam] Spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-20 12:22:11 UTC
From: Harvey Mandell
Topic: 1249 Message: 2584

Try Max-Gain Systems who have a large variety of
fiberglass products. They ship via UPS. Used their
rods and tubes to build my hex beam.

Harvey, WA2AAE

--- Tom King <tommignon@...> wrote:

> Still has anyone come up with a source for the
> Spredders in the NW area of USA?
>
> Tom King
> AC7WD
>
> --- on6ec <edcuypers@...> wrote:
>
> > Hi Group,
> > Does anyone from the UK uses the Glass Fibre
> > Reinforced Tubes with O.D.
> > 19.0mm (3/4")and 12.7mm I.D. (1/2"), from
> > http://www.rbjplastics.com/index.htm
> > I was wondering if this tube will bend a little?
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> > it is too stiff, i
> > can't start off with a slight bend to get the
> right
> > antenna shape. The
> > plan is to build a 40 - 20 - 17 -(15)mtr Hex
> > starting with a section
> > (1.66mtr) of this size and then go over to 5 mtr
> > long sections of
> > O.D. 12.0mm and I.D. 7.5mm or O.D 12.7mm (1/2")
> and
> > I.D. 6.35mm
> > Any experience? Thanks.
> > Ed ON6EC
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> _____
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> protection around
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http://mail.yahoo.com

2585. RE: [hex-beam] Spreaders from max gain systems tubing sizes From N9IWW

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-20 13:26:46 UTC
From: Kevin Adam
Topic: 1249 Message: 2585

These are the Tubing dimensions I used that work out. They are from Max-Gain Systems, but only buy the 8 foot lengths, UPS will be considerable more, but the length and sizes work.
Qty. Size Length
6 3/4" 8 feet Tubing
3 1" 8 feet Tubing
1 1 1/4" 8 feet Tubing
1 1/2" 8 feet Tubing
Cut the 1 1/4" Tubing to make 6 pieces to go on your Hex base plate wirh U-Bolts and add the other sizes accordingly. By the way I used 1 1/4" U-Bolts and had to stretch them a little over a piece of barstock to fit over the Fiberglass Tubing. Only use the 1/2" tubing cut in 6 pieces if you need a little more curve at the end, it isn't necessary, some people like it better.
Wire I used was 14 Gauge Flex Weave 167 strand from Rf Davis, a little pricey but excellent wire for the project.
Band Driven Length Reflector Length End Spacings
20M 219" 222" 5" & 7"
17M 169" 172" 3.5" & 5.5"
15M 145" 148" 3.25" & 4.75"
12M 122" 124" 2.5" & 4.25"
10M 109" 111" 2.25" & 3.5"
These are usually within a couple of inches in being tuned correctly.

Mast Spacing (Approx.) From SO239
20M 1.25" 17M 17.625" 15M 22.625" 12M 27.88" 10M 30.25"
The bottom of the center section is wherever the 10M lines look straight. Go up from the with each to find all band straight rather than the mast spacing dimensions, they are close but may vary a little. Even if they are not straight the antenna still should work OK most of the time. Note the wire dimensions are for one leg side
only, so you will need two of each of these cut. The Aluminum Hex plate I made was 12" and 5/16" thick, but 1/4" and 9.5" across the flats is good also. By the way you tip spacing at the top will be around 113" for 20 Meters wire. Now maybe this will give a few builders better insight. If anyone would like it I can tell you how to do the center pole and Feed connections too. Jerry Farek N5GND
check out my photo section (N5GND)

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of Harvey Mandell
Sent: Wednesday, July 20, 2005 7:22 AM
To: hex-beam@yahoogroups.com

Subject: Re: [hex-beam] Spreaders

Try Max-Gain Systems who have a large variety of
fiberglass products. They ship via UPS. Used their
rods and tubes to build my hex beam.

Harvey, WA2AAE

--- Tom King <tommignon@...> wrote:

> Still has anyone come up with a source for the
> Spredders in the NW area of USA?
>
> Tom King
> AC7WD
>
> --- on6ec <edcuypers@...> wrote:
>
> > Hi Group,
> > Does anyone from the UK uses the Glass Fibre
> > Reinforced Tubes with O.D.
> > 19.0mm (3/4")and 12.7mm I.D. (1/2"), from
> > http://www.rbjplastics.com/index.htm
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> > it is too stiff, i
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> > plan is to build a 40 - 20 - 17 -(15)mtr Hex
> > starting with a section
> > (1.66mtr) of this size and then go over to 5 mtr
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> > I.D. 6.35mm
> > Any experience? Thanks.
> > Ed ON6EC
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>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

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2586. 6 meter hex beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-19 13:07:55 UTC
From: vo1pjn
Topic: 2586 Message: 2586

hi all,my name is paul.i am interested in building a 6 meters hex beam. would appreciate all info that i could receive from all members of the hex-beam group.tnx vo1pjn

2587. Re: Spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-20 21:26:12 UTC
From: on6ec
Topic: 1249 Message: 2587

Thanks for the info, Colin.
While visiting my brother in law, in the UK, next month, I will pay the RBJ-Plastics peoples a visit. It is difficult, to evaluate from a distance, how flexible a tube is. Too stiff and it won't bend properly and too flexible and there isn't enough tension on the wire elements. I Better contact them and inquire if they have the 19mm and 12mm tubes in stock and if they close for the holiday's. And while we are there, maybe secure one end of the tube and lift up the other end to see how much it can bend. One thing is for sure; we won't find these prices here in our region (Belgium, Netherlands, France or Germany), as far as I know.
Also got about 25 pcs of 5 meter fishing rod here but this is useless for 40 mtr.
Regards Ed ON6EC

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
> Hi Ed
> I am using the 12mm (2.25mm wall)instead of 12.7mm, as its a nice
> sliding fit,bends well and is still very strong/ rigid.
>
> The 19mm (3.2mm wall) doesn`t bend much, especially in very short
> lengths ie: <1m .. its almost like a steel tube of equal wall
thickness!
>
> I had to put small wedges underneath it on the mounting plate to
raise
> the angle for the 10m elements, but for a long 40m spreader i think
it
> would work very well, from memory a full 5m length of 19mm is quite
> flexible.
> I do remember that 1.65m lengths of the 19mm and 12mm telescoped
> together weigh exactly 0.7kg.
> I personally think the 6.35mm would be too flexible.
>
> Regards Colin
>
> --- In hex-beam@yahoogroups.com, "on6ec" <edcuypers@p...> wrote:
> > Hi Group,
> > Does anyone from the UK uses the Glass Fibre Reinforced Tubes
with
> O.D.
> > 19.0mm (3/4")and 12.7mm I.D. (1/2"), from
> > http://www.rbjplastics.com/index.htm
> > I was wondering if this tube will bend a little? If it is too
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> i
> > can't start off with a slight bend to get the right antenna
shape.
> The
> > plan is to build a 40 - 20 - 17 -(15)mtr Hex starting with a
section
> > (1.66mtr) of this size and then go over to 5 mtr long sections of
> > O.D. 12.0mm and I.D. 7.5mm or O.D 12.7mm (1/2") and I.D. 6.35mm
> > Any experience? Thanks.
> > Ed ON6EC

2588. Re: Spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-20 22:43:07 UTC
From: Colin
Topic: 1249 Message: 2588

Hi Ed,
As you said,it is very hard to tell how rigid/flexible this tube is.

I did a quick experiment which may help: using a 1m length of the
tube to lift a 25 litre bucket full of water (25kg?)with the bucket
handle supported in the center of the tube (500mm each side).
19mm tube has hardly any bend... maybe 15mm- 20mm deflection maximum.
12mm tube has perhaps 75mm deflection.
Both tubes can lift the 25kg (25 litre bucket) from the ground
without any problems..very sturdy stuff.

Regards Colin

--- In hex-beam@yahoogroups.com, "on6ec" <edcuypers@p...> wrote:
> Thanks for the info, Colin.
> While visiting my brother in law, in the UK, next month, I will pay
> the RBJ-Plastics peoples a visit. It is difficult, to evaluate from
a
> distance, how flexible a tube is. Too stiff and it won't bend
> properly and too flexible and there isn't enough tension on the
wire
> elements. I Better contact them and inquire if they have the 19mm
and
> 12mm tubes in stock and if they close for the holiday's. And while
we
> are there, maybe secure one end of the tube and lift up the other
end
> to see how much it can bend. One thing is for sure; we won't find
> these prices here in our region (Belgium, Netherlands, France or
> Germany), as far as I know.
> Also got about 25 pcs of 5 meter fishing rod here but this is
useless
> for 40 mtr.
> Regards Ed ON6EC
>
> --- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
> > Hi Ed
> > I am using the 12mm (2.25mm wall)instead of 12.7mm, as its a nice
> > sliding fit,bends well and is still very strong/ rigid.
> >
> > The 19mm (3.2mm wall) doesn`t bend much, especially in very short
> > lengths ie: <1m .. its almost like a steel tube of equal wall
> thickness!
> >
> > I had to put small wedges underneath it on the mounting plate to
> raise

> > the angle for the 10m elements, but for a long 40m spreader i
think
> it
> > would work very well, from memory a full 5m length of 19mm is
quite
> > flexible.
> > I do remember that 1.65m lengths of the 19mm and 12mm telescoped
> > together weigh exactly 0.7kg.
> > I personally think the 6.35mm would be too flexible.
> >
> > Regards Colin
> >
> > --- In hex-beam@yahoogroups.com, "on6ec" <edcuypers@p...> wrote:
> > > Hi Group,
> > > Does anyone from the UK uses the Glass Fibre Reinforced Tubes
> with
> > O.D.
> > > 19.0mm (3/4")and 12.7mm I.D. (1/2"), from
> > > http://www.rbjplastics.com/index.htm
> > > I was wondering if this tube will bend a little? If it is too
> stiff,
> > i
> > > can't start off with a slight bend to get the right antenna
> shape.
> > The
> > > plan is to build a 40 - 20 - 17 -(15)mtr Hex starting with a
> section
> > > (1.66mtr) of this size and then go over to 5 mtr long sections
of
> > > O.D. 12.0mm and I.D. 7.5mm or O.D 12.7mm (1/2") and I.D. 6.35mm
> > > Any experience? Thanks.
> > > Ed ON6EC

2589. inverted hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-21 17:36:11 UTC
From: Eric S. Johansson
Topic: 2589 Message: 2589

I haven't been reading the list too closely by I'm wondering if anyone has considered an inverted hex beam? In theory, one could use a six legged platform for the 20 m section and then using fishing line or rope, create a framework for the remaining four bands. The support ropes would go from the larger six leg framework up to to a smaller six legged framework (10 m?) than one would have 17 to 12 set up in between.

one advantage of this form is that the 20 m platform could be kept relatively straight by to support robes up to the top of the central mast.

yes? No? Must I draw pictures?

--
http://www.wired.com/wired/archive/13.03/view.html?pg=5

The result of the duopoly that currently defines "competition" is that prices and service suck. We're the world's leader in Internet technology - except that we're not.

2590. Excellent Service

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-20 14:17:23 UTC
From: icomic746
Topic: 2590 Message: 2590

All.
I must write and inform eveyone in the group of the excellent service I received from DL7IO. Holger's help in supplying all the information I needed and ready made parts to build a 5 band version of the Hexbeam was excellent. I can highly recommend Holger as a source of parts for this antenna. All parts supplied were of a very high standard, well packed and shipped on time. There are a lot of big dealers that could Learn a thing or two from Holger.
Simon (MM0GBK)

2591. Re: inverted hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-21 19:12:04 UTC
From: gerry_schjelderup
Topic: 2589 Message: 2591

I am not sure I understand your concept, but it would seem you would encounter more disadvantages, namely, its natural tendency to droop, more complicated, expensive and more work than the conventional way in preventing that, and placing your antenna at a lower elevation.
Gerry KC0MSX

--- In hex-beam@yahoogroups.com, "Eric S. Johansson" <esj@h...> wrote:
> I haven't been reading the list too closely by I'm wondering if anyone
> has considered an inverted hex beam? In theory, one could use a six
> legged platform for the 20 m section and then using fishing line or
> rope, create a framework for the remaining four bands. The support
> ropes would go from the larger six leg framework up to to a smaller six
> legged framework (10 m?) than one would have 17 to 12 set up in
between.
>
> one advantage of this form is that the 20 m platform could be kept
> relatively straight by to support robes up to the top of the central
mast.
>
> yes? No? Must I draw pictures?
>
> --
> http://www.wired.com/wired/archive/13.03/view.html?pg=5
>
> The result of the duopoly that currently defines "competition" is that
> prices and service suck. We're the world's leader in Internet
> technology - except that we're not.

2592. Re: [hex-beam] Excellent Service

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-21 21:25:41 UTC
From: m0clz
Topic: 2590 Message: 2592

I have to second this.
I have not assembled the antenna yet but work (lack off hi) permitting I will have it up and running this weekend.
The quality of the parts is outstanding and I think I will get a good few years service out of it.

Have Fun

Dick

----- Original Message -----
From: "icomic746" <icomic746@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, July 20, 2005 3:17 PM
Subject: [hex-beam] Excellent Service

> All.
> I must write and inform eveyone in the group of the excellent service I
> received from DL7IO. Holger's help in supplying all the information I
> needed and ready made parts to build a 5 band version of the Hexbeam
> was excellent. I can highly recommend Holger as a source of parts for
> this antenna. All parts supplied were of a very high standard, well
> packed and shipped on time. There are a lot of big dealers that could
> Learn a thing or two from Holger.
> Simon (MM0GBK)
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> Yahoo! Groups Links
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> --
> No virus found in this incoming message.
> Checked by AVG Anti-Virus.

> Version: 7.0.323 / Virus Database: 267.9.2/53 - Release Date: 20/07/2005
>
>

2593. Re: Spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-22 01:06:55 UTC
From: Colin
Topic: 1249 Message: 2593

Ed
I calculated your proposed 40m spreaders (6.5m long?) will weigh
about 1.05kg each and probably cost around 130 euro`s (£90) for the
lot judging by what they charged me, that`s assuming you will have to
pay the vat.
No clue about the shipping cost overseas though.
I guess you could always bring a really big suitcase with you
instead :)

I posted a few pictures on the web showing the spreaders and hub
after 18 months outside.
(The hex is currently stripped and being rebuilt with better hardware)
The lumps on the fibreglass are raindrops by the way.

http://usera.imagecave.com/djcol/Hexbeam/

Apart from some superficial algae growth (which wipes off clean) all
is as solid as the day it went up.

Use quality stainless steel hardware or you can tell by these
pictures what will happen if you don`t!
The hub bolts and hose clamps are stainless but the homebrew u-bolts
aren`t as i couldn`t find any small enough.

The flange fitting (kee-klamp) is made of tough cast aluminium alloy
which should last for years.

Regards Colin

--- In hex-beam@yahoogroups.com, "on6ec" <edcuypers@p...> wrote:
> Thanks for the info, Colin.
> While visiting my brother in law, in the UK, next month, I will pay
> the RBJ-Plastics peoples a visit. It is difficult, to evaluate from
a
> distance, how flexible a tube is. Too stiff and it won't bend
> properly and too flexible and there isn't enough tension on the
wire
> elements. I Better contact them and inquire if they have the 19mm
and
> 12mm tubes in stock and if they close for the holiday's. And while
we
> are there, maybe secure one end of the tube and lift up the other
end
> to see how much it can bend. One thing is for sure; we won't find
> these prices here in our region (Belgium, Netherlands, France or
> Germany), as far as I know.
> Also got about 25 pcs of 5 meter fishing rod here but this is

useless
> for 40 mtr.
> Regards Ed ON6EC

2594. Re: Spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-22 21:23:18 UTC
From: on6ec
Topic: 1249 Message: 2594

Hi Colin, Thanks for the test. I guess that 5 mtr of 19mm will bend more, but 15 to 20mm for 1mtr length isn't much. And 25 kg is a serious weight. I think it is maybe best to start with a 1.66mtr long section of 19mm (two tubes all together) and then continue with 12mm (6 tubes all together). The 19mm tube is also better to clamp on the hub. Also keeping in mind that one day, the 12mm tubes are more practicle for the 12 and 10mtr band. I see on your pictures that the 12mm fits nicely in the 19mm. The price you mention below, is very competitive. A friend of mine bought a (expensive)5 band fibreglas Quad from a German manufacturer, with the promise that this antenna would last forever. Even the boom was fibreglas. It performed well, but after a few years, the fibreglass started to flake off, due to the UV-ray's. I see it is not the case with your spreaders. But i think to be on the safe side, it is best to paint it with some UV-protective paint, I'm told that the paint they use on the plastic car bumpers will do fine.
We will use the Eurotunnel and put a roof rack on the car. It would be a shame to saw the tubes into pieces. I put them over the roof rack and bend (tie)them towards the front and rear bumper. And yes we also pay VAT in the UK.
Regards.
Ed ON6EC

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
> Ed
> I calculated your proposed 40m spreaders (6.5m long?) will weigh
> about 1.05kg each and probably cost around 130 euro`s (£90) for the
> lot judging by what they charged me, that`s assuming you will have
to
> pay the vat.
> No clue about the shipping cost overseas though.
> I guess you could always bring a really big suitcase with you
> instead :)
>
> I posted a few pictures on the web showing the spreaders and hub
> after 18 months outside.
> (The hex is currently stripped and being rebuilt with better
hardware)
> The lumps on the fibreglass are raindrops by the way.
>
> http://usera.imagecave.com/djcol/Hexbeam/
>
> Apart from some superficial algae growth (which wipes off clean)
all
> is as solid as the day it went up.

>
> Use quality stainless steel hardware or you can tell by these
> pictures what will happen if you don`t!
> The hub bolts and hose clamps are stainless but the homebrew u-
bolts
> aren`t as i couldn`t find any small enough.
>
> The flange fitting (kee-klamp) is made of tough cast aluminium
alloy
> which should last for years.
>
> Regards Colin
>
> --- In hex-beam@yahoogroups.com, "on6ec" <edcuypers@p...> wrote:
> > Thanks for the info, Colin.
> > While visiting my brother in law, in the UK, next month, I will
pay
> > the RBJ-Plastics peoples a visit. It is difficult, to evaluate
from
> a
> > distance, how flexible a tube is. Too stiff and it won't bend
> > properly and too flexible and there isn't enough tension on the
> wire
> > elements. I Better contact them and inquire if they have the 19mm
> and
> > 12mm tubes in stock and if they close for the holiday's. And
while
> we
> > are there, maybe secure one end of the tube and lift up the other
> end
> > to see how much it can bend. One thing is for sure; we won't find
> > these prices here in our region (Belgium, Netherlands, France or
> > Germany), as far as I know.
> > Also got about 25 pcs of 5 meter fishing rod here but this is
> useless
> > for 40 mtr.
> > Regards Ed ON6EC

2595. Re: Spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-23 00:05:38 UTC
From: Colin
Topic: 1249 Message: 2595

Ed
I think this stuff is very uv resistant already as it shows no sign of any type of degradation,painting it would help with camoflage as it`s brilliant white in colour.
I have used those cheap fishing poles outside for various antennas and found they do tend to flake after about a year.
I seriously doubt they would pass the same 25kg test.

Your idea of tying the tubes to the bumpers will work great, especially with the 12mm dia.
I measured the tubes i have here and it appears that 5.1m (not 5m)is the standard length.

The price is good and the delivery service I had was excellent.
I sent them a postal order payment as they don`t accept plastic (you may need to make a note of that).

From posting the letter 1st class in the local postbox to the delivery guy banging on the door took almost exactly 48 hours!
140+ miles, full 5.1m lengths for just £14 is very good for uk delivery.

Regards Colin

--- In hex-beam@yahoogroups.com, "on6ec" <edcuypers@p...> wrote:
> Hi Colin, Thanks for the test. I guess that 5 mtr of 19mm will bend
> more, but 15 to 20mm for 1mtr length isn't much. And 25 kg is a
> serious weight. I think it is maybe best to start with a 1.66mtr long
> section of 19mm (two tubes all together) and then continue with 12mm
> (6 tubes all together). The 19mm tube is also better to clamp on the
> hub. Also keeping in mind that one day, the 12mm tubes are more
> practicle for the 12 and 10mtr band. I see on your pictures that the
> 12mm fits nicely in the 19mm. The price you mention below, is very
> competitive. A friend of mine bought a (expensive)5 band fibreglas
> Quad from a German manufacturer, with the promise that this antenna
> would last forever. Even the boom was fibreglas. It performed well,
> but after a few years, the fibreglass started to flake off, due to
> the UV-ray's. I see it is not the case with your spreaders. But i
> think to be on the safe side, it is best to paint it with some UV-
> protective paint, I'm told that the paint they use on the plastic car
> bumpers will do fine.

> We will use the Eurotunnel and put a roof rack on the car. It would
> be a shame to saw the tubes into pieces. I put them over the roof
> rack and bend (tie)them towards the front and rear bumper. And yes
we
> also pay VAT in the UK.
> Regards.
> Ed ON6EC

2596. Any Homebrew Hex Beams in the Denver Area?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-22 14:54:29 UTC
From: longrange10
Topic: 2596 Message: 2596

I want to try building a 5 band hex beam and was wondering if anyone in the Denver area has built a hex beam and would be willing to help me out or let me take a look at their handiwork? Thanks, Ken, N0VZ

2597. erection !!

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-24 04:11:53 UTC
From: bur52
Topic: 2597 Message: 2597

Hello all

It is put together. It has for the most part very good swr on all bands. A little high on the long end of 10 meters. At 3 feet I worked a few stations with good reports...And feel the swr will improve a little more at normal elevation...

I will try to get it up to 35 feet tomorrow. Should be head and shoulders better than my present fan dipole. See ya on the bands !
73
KB3LXY
JohnB

2598. Re: [hex-beam] erection !!

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-24 05:12:21 UTC
From: Tom King
Topic: 2597 Message: 2598

How did you make it?
How did you feed it?
Where did get your materials?
how about som pic's

Tom
AC7WD

--- bur52 <bur52@...> wrote:

> Hello all
>
> It is put together. It has for the most part very
> good swr on all
> bands. A little high on the long end of 10 meters.
> At 3 feet I worked a
> few stations with good reports...And feel the swr
> will improve a little
> more at normal elevation...
>
> I will try to get it up to 35 feet tomorrow. Should
> be head and
> shoulders better than my present fan dipole. See ya
> on the bands !
> 73
> KB3LXY
> JohnB
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2599. Re: [hex-beam] erection !!

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-24 09:50:59 UTC
From: bur52@aol.com
Topic: 2597 Message: 2599

...it is not a home brew. It is A traffie made, five bander.
JohnB

[Non-text portions of this message have been removed]

2600. ON or LX user of HXB ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-24 11:33:43 UTC
From: groupterragen1
Topic: 2600 Message: 2600

HI,

Living in LX, close to ON border, I am searching for a user of hexa-beam living in the neighborhood (brussels - arlon - metz) to share experience and advice before purchasing one.

Answer via http://www.astrosurf.org/lombry/post.htm

73
Thierry, ON4SKY, LX3SKY

2601. Re: [hex-beam] Digest Number 739

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-24 15:20:17 UTC
From: Eric S. Johansson
Topic: 2601 Message: 2601

Message: 3
Date: Thu, 21 Jul 2005 19:12:04 -0000
From: "gerry_schjelderup" <KC0MSX@...>
Subject: Re: inverted hex

I am not sure I understand your concept, but it would seem you would encounter more disadvantages, namely, its natural tendency to droop, more complicated, expensive and more work than the conventional way in preventing that, and placing your antenna at a lower elevation.
Gerry KC0MSX
---

there are numerous ways to overcome the issue of droop. I was trying to develop a different form of the antenna in an attempt to alleviate many of the problems that make even a homebrew version expensive to build. Expensive that is if you want it to last more than a few months in the sun.

I find the conventional method rather frustrating because none of the documentation people have produced so far describe the mechanical geometry very well. I have only a very rough idea of the curve of a spar, the distance between any two spars for any band, the length of each leg of each antenna element (i.e. distanced from mast to attachment point to final attachment point.

attaching wires to the spars also seems rather crude. There should be a better way of making that work except I really don't know anything about the forces and magnitude of wire/spar movement. there really should be a better way than hose clamps and tubing. For example, for a temporary installation, would it be possible to use Velcro to hold the wires? For more permanent installation, would it be possible to use some sort of low friction plastic screwed or glued to the spar?

now I could reverse engineer this by making some assumptions but these assumptions are just that, assumptions. And yes, I have been through the files and there are some interesting inconsistencies in terms of the spacings between antennas and the length of elements. The only one I remember is the separation between 20 m and 17 m on one of the five band designs was much larger than the spacing described in a spreadsheet of a five band design.

mostly just thinking but I would like to assemble the antenna sitting in my garage someday. Although, given the current sunspot cycle, I may just try a wire 80 m version if I can find a way to get the antenna above 30 odd feet.

--- eric

2602. Re: Digest Number 739

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-25 13:44:13 UTC
From: Colin
Topic: 2601 Message: 2602

Hi Eric
I understand the concept but i do tend to agree with Gerry that the standard configuration is more efficient.
Using 2 sets of spreaders (20m and 10m) will increase the weight by 50% and also the windloading.

I`m sure velcro would be very good for element attachment in portable/temporary situations.
The reason there seems to be a variation of measurements in homebrew hexbeams is likely due to the different spreader materials used.

A really bendy spreader generates a larger vertical spacing between wires because of the large curvature. A much smaller vertical spacing is likely with stiff spreaders which don`t curve so easily.

Interaction (or lack of, in the case of large spacing)would require adjustment to element lengths and/or end spacing.
Type of wire used,location,height and many other variables would also contribute.

This is not to say that you shouldn`t build one as you described.
It should be an interesting project.

Regards Colin

--- In hex-beam@yahoogroups.com, "Eric S. Johansson" <esj@h...> wrote:
> Message: 3
> Date: Thu, 21 Jul 2005 19:12:04 -0000
> From: "gerry_schjelderup" <KC0MSX@a...>
> Subject: Re: inverted hex
>
> I am not sure I understand your concept, but it would seem you would
> encounter more disadvantages, namely, its natural tendency to droop,
> more complicated, expensive and more work than the conventional way
in
> preventing that, and placing your antenna at a lower elevation.
> Gerry KC0MSX
> -------
>
> there are numerous ways to overcome the issue of droop. I was
trying to
> develop a different form of the antenna in an attempt to alleviate
many
> of the problems that make even a homebrew version expensive to
build.
> Expensive that is if you want it to last more than a few months in

the sun.
>
> I find the conventional method rather frustrating because none of
the
> documentation people have produced so far describe the mechanical
> geometry very well. I have only a very rough idea of the curve of
a
> spar, the distance between any two spars for any band, the length
of
> each leg of each antenna element (i.e. distanced from mast to
attachment
> point to final attachment point.
>
> attaching wires to the spars also seems rather crude. There should
be a
> better way of making that work except I really don't know anything
about
> the forces and magnitude of wire/spar movement. there really
should be
> a better way than hose clamps and tubing. For example, for a
temporary
> installation, would it be possible to use Velcro to hold the
wires? For
> more permanent installation, would it be possible to use some sort
of
> low friction plastic screwed or glued to the spar?
>
> now I could reverse engineer this by making some assumptions but
these
> assumptions are just that, assumptions. And yes, I have been
through
> the files and there are some interesting inconsistencies in terms
of the
> spacings between antennas and the length of elements. The only one
I
> remember is the separation between 20 m and 17 m on one of the five
band
> designs was much larger than the spacing described in a spreadsheet
of a
> five band design.
>
> mostly just thinking but I would like to assemble the antenna
sitting in
> my garage someday. Although, given the current sunspot cycle, I
may
> just try a wire 80 m version if I can find a way to get the antenna
> above 30 odd feet.
>
> --- eric

2603. Re: [hex-beam] Re: Digest Number 739

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-25 20:25:07 UTC
From: Bill Archer
Topic: 2601 Message: 2603

Colin wrote:

>Hi Eric
>I understand the concept but i do tend to agree with Gerry that the
>standard configuration is more efficient.
>Using 2 sets of spreaders (20m and 10m) will increase the weight by
>50% and also the windloading.
>
>I`m sure velcro would be very good for element attachment in
>portable/temporary situations.
>The reason there seems to be a variation of measurements in homebrew
>hexbeams is likely due to the different spreader materials used.
>
>A really bendy spreader generates a larger vertical spacing between
>wires because of the large curvature. A much smaller vertical spacing
>is likely with stiff spreaders which don`t curve so easily.
>
>
>
Gee, and all this time I thought the length of the spreader determined
the curvature.

>Interaction (or lack of, in the case of large spacing)would require
>adjustment to element lengths and/or end spacing.
>Type of wire used,location,height and many other variables would also
>contribute.
>
>This is not to say that you shouldn`t build one as you described.
>It should be an interesting project.
>
>Regards Colin
>
>
>
>
>
>

2604. Re: Digest Number 739

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-25 21:49:36 UTC
From: Colin
Topic: 2601 Message: 2604

Hi Bill
I`m sure the length does determine the curve to some degree but if you take equal lengths of tube with different diameters they will curve at very different rates.
A recent experiment with a 19mm tube x 1m long took 25kg of weight to create a slight curve. A 12mm tube x 1m long with the same weight curved a lot more as you`d expect.
I`m sure the 19mm could be forced to curve the same but the amount of pull needed to accomplish it would no doubt break the wire holding it or the tube itself :)

Regards Colin

--- In hex-beam@yahoogroups.com, Bill Archer <kc5gnb@c...> wrote:
> Colin wrote:
>
> >Hi Eric
> >I understand the concept but i do tend to agree with Gerry that the
> >standard configuration is more efficient.
> >Using 2 sets of spreaders (20m and 10m) will increase the weight by
> >50% and also the windloading.
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> >portable/temporary situations.
> >The reason there seems to be a variation of measurements in homebrew
> >hexbeams is likely due to the different spreader materials used.
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> >A really bendy spreader generates a larger vertical spacing between
> >wires because of the large curvature. A much smaller vertical spacing
> >is likely with stiff spreaders which don`t curve so easily.
> >
> >
> >
> Gee, and all this time I thought the length of the spreader determined
> the curvature.
>
> >Interaction (or lack of, in the case of large spacing)would require
> >adjustment to element lengths and/or end spacing.

> >Type of wire used,location,height and many other variables would
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> >contribute.
> >
> >This is not to say that you shouldn`t build one as you described.
> >It should be an interesting project.
> >
> >Regards Colin
> >
> >
> >
> >
> >
> >

2605. Re: erection !!

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-30 03:31:29 UTC
From: bur52
Topic: 2597 Message: 2605

--- In hex-beam@yahoogroups.com, bur52@a... wrote:
> ...it is not a home brew. It is A traffie made, five bander.
>
>
> Well it is at 32 feet. It has great swr on all bands. 10 being a
little higher. But all others no tuner needed. I have made some
contacts, and broken a few pile ups. I have to say this thing does
work ! It seems to have some gain. It also has about 3-4 db front to
back. The side nulls are good. It does what a two element beam should.

It certainly hears better than the dipole I have..at least 2-3 s
units better. Pricey, But it works as advertised. Nice work Mr Traffie!
73
JohnB
KB3LXY

2606. Re: Digest Number 739

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-31 00:12:31 UTC
From: w4wb
Topic: 2601 Message: 2606

I don't think you understand the real reason for the curved arms Colin. For a monobander, it doesn't matter a bit ... even almost straight (not so stable though); however, for a multiband unit it does. You need to have certain vertical separation between the bands so that you can properly attach all of the elements for the different bands onto the same set of arms. If you lay it out, accounting for tip separation and element lengths, you will see that there is an appropriate curve. Oddly enough, it happens to be the arm curve that Traffie uses. ;-)

GL es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
> Hi Bill
> I`m sure the length does determine the curve to some degree but if
> you take equal lengths of tube with different diameters they will
> curve at very different rates.
> A recent experiment with a 19mm tube x 1m long took 25kg of weight
to
> create a slight curve. A 12mm tube x 1m long with the same weight
> curved a lot more as you`d expect.
> I`m sure the 19mm could be forced to curve the same but the amount
of
> pull needed to accomplish it would no doubt break the wire holding
it
> or the tube itself :)
>
> Regards Colin
>
> --- In hex-beam@yahoogroups.com, Bill Archer <kc5gnb@c...> wrote:
> > Colin wrote:
> >
> > >Hi Eric
> > >I understand the concept but i do tend to agree with Gerry that
> the
> > >standard configuration is more efficient.
> > >Using 2 sets of spreaders (20m and 10m) will increase the weight
> by
> > >50% and also the windloading.
> > >
> > >I`m sure velcro would be very good for element attachment in
> > >portable/temporary situations.
> > >The reason there seems to be a variation of measurements in
> homebrew

> > >hexbeams is likely due to the different spreader materials used.
> > >
> > >A really bendy spreader generates a larger vertical spacing
> between
> > >wires because of the large curvature. A much smaller vertical
> spacing
> > >is likely with stiff spreaders which don`t curve so easily.
> > >
> > >
> > >
> > Gee, and all this time I thought the length of the spreader
> determined
> > the curvature.
> >
> > >Interaction (or lack of, in the case of large spacing)would
> require
> > >adjustment to element lengths and/or end spacing.
> > >Type of wire used,location,height and many other variables would
> also
> > >contribute.
> > >
> > >This is not to say that you shouldn`t build one as you described.
> > >It should be an interesting project.
> > >
> > >Regards Colin
> > >
> > >
> > >
> > >
> > >
> > >

2607. Re: Digest Number 739

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-31 04:26:16 UTC
From: Colin
Topic: 2601 Message: 2607

Hi Barry
I understand the importance of the correct curve for multibanders, but on the homebrew front it can be hard to get the perfect curve (along with the necessary strength and flexibility) using the various homebrew spreader materials.
The vertical spacing between bands on homebrew hexbeams is likely to vary somewhat dependant on the spreader material used.
If the material is too stiff it won`t curve correctly (it could be forced into it but watchout for the whiplash!) and if its too flimsy it`ll curve great but it might not be able to support itself and the wires.These spreaders could even droop below the base plate in the worst case scenario.

Buying a "real" hexbeam is a nice option as all the work is done.
I would certainly consider it, but at £700 ($1240?)its a very expensive proposition here ;)

Regards Colin

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> I don't think you understand the real reason for the curved arms
> Colin. For a monobander, it doesn't matter a bit ... even almost
> straight (not so stable though); however, for a multiband unit it
> does. You need to have certain vertical separation between the
bands
> so that you can properly attach all of the elements for the
different
> bands onto the same set of arms. If you lay it out, accounting for
> tip separation and element lengths, you will see that there is an
> appropriate curve. Oddly enough, it happens to be the arm curve
that
> Traffie uses. ;-)
>
> GL es 73,
> Barry W4WB
>
>
> --- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
> > Hi Bill
> > I`m sure the length does determine the curve to some degree but
if
> > you take equal lengths of tube with different diameters they will
> > curve at very different rates.
> > A recent experiment with a 19mm tube x 1m long took 25kg of
weight
> to

> > create a slight curve. A 12mm tube x 1m long with the same weight
> > curved a lot more as you`d expect.
> > I`m sure the 19mm could be forced to curve the same but the
amount
> of
> > pull needed to accomplish it would no doubt break the wire
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> it
> > or the tube itself :)
> >
> > Regards Colin
> >
> > --- In hex-beam@yahoogroups.com, Bill Archer <kc5gnb@c...> wrote:
> > > Colin wrote:
> > >
> > > >Hi Eric
> > > >I understand the concept but i do tend to agree with Gerry
that
> > the
> > > >standard configuration is more efficient.
> > > >Using 2 sets of spreaders (20m and 10m) will increase the
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> > by
> > > >50% and also the windloading.
> > > >
> > > >I`m sure velcro would be very good for element attachment in
> > > >portable/temporary situations.
> > > >The reason there seems to be a variation of measurements in
> > homebrew
> > > >hexbeams is likely due to the different spreader materials
used.
> > > >
> > > >A really bendy spreader generates a larger vertical spacing
> > between
> > > >wires because of the large curvature. A much smaller vertical
> > spacing
> > > >is likely with stiff spreaders which don`t curve so easily.
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> > > >
> > > >
> > > Gee, and all this time I thought the length of the spreader
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> > > the curvature.
> > >
> > > >Interaction (or lack of, in the case of large spacing)would
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> > > >adjustment to element lengths and/or end spacing.
> > > >Type of wire used,location,height and many other variables
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> > > >contribute.
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described.
> > > >It should be an interesting project.
> > > >
> > > >Regards Colin
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >

2608. Hex height???

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-31 15:14:48 UTC
From: bur52
Topic: 2608 Message: 2608

What are you guys using for average height? Traffie says that 35-40 is about the optimum. I am going to get mine to 40...maybe 50? Any thoughts on any higher?
JohnB
KB3LXY
73

2609. Re: [hex-beam] Hex height???

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-31 20:50:42 UTC
From: Tom King
Topic: 2608 Message: 2609

I live with a hill that is about 30 ft above ground
level real close to the house in the direction of the
rest of the country and there are 50-70ft trees on
that hill. NW USA I wanted to know where to start the
30-40 ft measurement?

Tom
AC7WD

--- bur52 <bur52@...> wrote:

> What are you guys using for average height? Traffie
> says that 35-40 is
> about the optimum. I am going to get mine to
> 40...maybe 50? Any
> thoughts on any higher?
> JohnB
> KB3LXY
> 73
>
>
>

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2610. I think it works

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-01 22:27:30 UTC
From: bur52
Topic: 2610 Message: 2610

The Hex as been up only a few days. I have to say, I am like a kid with a new toy!

At 30 feet...worked VK9,multiple Russians, west Africa, Argentina,Norway, Spain, Azores,Finland, England...and a few more. Most were on the first call. Using 500 watts the system seems to be pretty efficient in radiating a good signal. The VK9 was a little tough copy on my end, but he gave me a good signal report. It may be a mini beam...but it works for me. I cannot wait to get it up a little higher !!
JohnB
KB3LXY
73

2611. RE: [hex-beam] I think it works

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-02 02:55:57 UTC
From: Bill Metzger
Topic: 2610 Message: 2611

What you are describing appears to be a characteristic of the Hexbeam. If you can hear a station (even barely) they appear to hear you much stronger. I've found this to be the case with my HX 5Bi on many occasions and have been told by Mike Traffie that this is quite common. Apparently the antenna radiates very well and has a unique low angle of radiation making it great for DX. Mine is at about 35 feet mounted to a deck. It is my understanding that 35 to 40 feet is optimal for the Hexbeam. I am not sure about yours, but my 5Bi has a flat SWR across every one of the bands. On 20 meters, the highest SWR is 1.5 and the lowest undetectable (1 to 1). It is great to just tune up a station and transmit without worrying about the SWR. I took my AT-1000 Autotuner out of the system immediately and now use it on a ground-mounted vertical on 80 meters.

I am very pleased with the Hexbeam and recommend it to anyone who wants to try and build one or who has the $$$ to buy one. My only advice might be to paint it flat black or gray or some other neutral color to make it blend into the sky and/or surroundings. The white fiberglass arms are quite obvious.

Bill
KF0OH
-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com]On Behalf Of bur52
Sent: Monday, August 01, 2005 5:28 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] I think it works

The Hex as been up only a few days. I have to say, I am like a kid with a new toy!

At 30 feet...worked VK9,multiple Russians, west Africa, Argentina,Norway, Spain, Azores,Finland, England...and a few more. Most were on the first call. Using 500 watts the system seems to be pretty efficient in radiating a good signal. The VK9 was a little tough copy on my end, but he gave me a good signal report. It may be a mini beam...but it works for me. I cannot wait to get it up a little higher !!
JohnB
KB3LXY
73

--
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hex-beam-unsubscribe@yahoogroups.com

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--

[Non-text portions of this message have been removed]

2612. 6 Meter/2 Meter

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-01 13:27:45 UTC
From: mga620000
Topic: 2612 Message: 2612

Has anyone played with their 5-bander on the high frequencies?

I have a Traffie five band, and was experiencing some problems with one of my radios. I pulled out the antenna analyzer to do some checking. When I found out it was the radio, I installed a spare mobile rig I keep as a spare. On a whim, I checked the Hex beam on 6 and 2 meters. It looked like it would perform quite well on some useful parts of the band. I hooked up the mobile and sure enough, it transmitted fine, even with its rather sensitive protection circuitry. This was barefoot. With a small mobile tuner, I believe I could work most of both bands. Any one else tried this or had this experience? Having one antenna for 2m through 20m is a really nice proposition.

2613. Re: [hex-beam] Hex height???

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-07-31 16:55:50 UTC
From: mlflotus@aol.com
Topic: 2608 Message: 2613

I have 210 countries at 18 feet Mike WA9BTE

[Non-text portions of this message have been removed]

2614. Re: [hex-beam] 6 Meter/2 Meter

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-02 12:04:08 UTC
From: Jason Hissong
Topic: 2612 Message: 2614

I used my Hexbeam to contact stations on 6 meters. I even worked Aurora with it. I was using an IC746 with its internal tuner. A very versatile antenna.

73,
Jason, N8XE

mga620000 wrote:

>Has anyone played with their 5-bander on the high frequencies?
>
>I have a Traffie five band, and was experiencing some problems with one
>of my radios. I pulled out the antenna analyzer to do some checking.
>When I found out it was the radio, I installed a spare mobile rig I
>keep as a spare. On a whim, I checked the Hex beam on 6 and 2 meters.
>It looked like it would perform quite well on some useful parts of the
>band. I hooked up the mobile and sure enough, it transmitted fine, even
>with its rather sensitive protection circuitry. This was barefoot. With
>a small mobile tuner, I believe I could work most of both bands. Any
>one else tried this or had this experience? Having one antenna for 2m
>through 20m is a really nice proposition.
>
>
>

--

"A long journey starts with the first step and an understanding spouse."
http://www.undermidnight.com - astronomy and astrophotography
http://www.n8xe.com - ham radio
http://www.jasonhissong.com - electronic music composition

2615. element distance

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-08 00:26:58 UTC
From: Charlie
Topic: 2615 Message: 2615

Hello - I am building a 20/17 meter hex beam and wonder what the spacing between the driven and reflective elements should be for each band. No problems with tip spacing, but the first version had almost no F/B gain, so I am wondering if the elements are too close at the feedpoint.

Thanks!

Charlie
N1CWL

2616. Re: element distance

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-09 08:20:14 UTC
From: dl7io
Topic: 2615 Message: 2616

Hello Charlie,
usually we have center posts of about 4 cm diameter (about 1.5 inch).
If the feeding system is installed inside the center post the elements
have about 1-2 cm air space in between.
I could not notice any serious differences between inside or outside
mounted feeding systems in practice. So I don't think the reason for
the bad F/B will be here.

What kind of wire (diameter/insulation?) are you using. In the model
you can easy calculate versions where the direction will change within
a few 100 kHz. This is because the difference in length between
radiator and reflector is only 1%-4%. But for the radiator the lengths
of the feeding system is still active even if not radiating itself.

So if the reflector is more like a bad director you will have this
impression of no F/B but some side nulls.

Give us please a few more data on element lengths and used material.

Regards Holger, DL7IO

--- In hex-beam@yahoogroups.com, "Charlie" <blissboat@a...> wrote:
> Hello - I am building a 20/17 meter hex beam and wonder what the
> spacing between the driven and reflective elements should be for each
> band. No problems with tip spacing, but the first version had almost
no
> F/B gain, so I am wondering if the elements are too close at the
> feedpoint.
>
> Thanks!
>
> Charlie
> N1CWL

2617. wire for hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-09 15:26:43 UTC
From: Giancarlo Moda
Topic: 2617 Message: 2617

Hi,

I have the intention to build a 5 bands Hex Beam, 10 to 20 meters including WARCs.

I will use electric wire (multicore) used for electric installations in houses. I have already used this wire for homebrew antennas, including VK2ABQ rectangular shape, and had no problems.
It is not easy to purchase copper wire without pvc protection.

Is here anyone that has used this wire for assembly? I have been calculating a velocity factor of 0.97-0.98. It means the elements will get shorter of 2 to 3%.

Frame will be 6 x 4 meters fishing canes with 1st meter removed.

73

Gian
I7SWX

_____
Start your day with Yahoo! - make it your home page
http://www.yahoo.com/r/hs

2618. Re: wire for hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-09 20:13:40 UTC
From: dl7io
Topic: 2617 Message: 2618

Hello Gian,

I have copper wire without pvc or whatever skin if you like. You also
can get a prepared set of wires if you like.
Details are on:
http://www.dl7io.de/reflectedw_parts.html
Regards Holger

--- In hex-beam@yahoogroups.com, Giancarlo Moda <i7swx@y...> wrote:
> Hi,
>
> I have the intention to build a 5 bands Hex Beam, 10
> to 20 meters including WARCs.
>
> I will use electric wire (multicore) used for electric
> installations in houses. I have already used this wire
> for homebrew antennas, including VK2ABQ rectangular
> shape, and had no problems.
> It is not easy to purchase copper wire without pvc
> protection.
>
> Is here anyone that has used this wire for assembly? I
> have been calculating a velocity factor of 0.97-0.98.
> It means the elements will get shorter of 2 to 3%.
>
> Frame will be 6 x 4 meters fishing canes with 1st
> meter removed.
>
> 73
>
> Gian
> I7SWX
>
>
>
> _____
> Start your day with Yahoo! - make it your home page
> http://www.yahoo.com/r/hs

2619. Re: [hex-beam] wire for hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-09 17:50:18 UTC
From: miaidea2001
Topic: 2617 Message: 2619

Vai Giancarlo, che passata l'estate la faccio anche io.

73 de IK6GQC Rocco

From: Giancarlo Moda
To: hex-beam@yahoogroups.com
Sent: Tuesday, August 09, 2005 5:26 PM
Subject: [hex-beam] wire for hex-beam

Hi,

I have the intention to build a 5 bands Hex Beam, 10
to 20 meters including WARCs.

I will use electric wire (multicore) used for electric
installations in houses. I have already used this wire
for homebrew antennas, including VK2ABQ rectangular
shape, and had no problems.
It is not easy to purchase copper wire without pvc
protection.

Is here anyone that has used this wire for assembly? I
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It means the elements will get shorter of 2 to 3%.

Frame will be 6 x 4 meters fishing canes with 1st
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Gian
I7SWX

_____
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[Non-text portions of this message have been removed]

2620. Hexbeam Progress

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-13 14:36:36 UTC
From: Colin
Topic: 2620 Message: 2620

Hi All,
I thought i`d to share my experience of my 5 band hexbeam construction as you deserve all the credit for making it possible :)

It`s not completed yet but its getting very close.
I had a few problems getting things level as i live on a hill and my yard slopes in 2 directions,the kids crashing into it every few minutes didn`t help but it is their summer holidays and the hex does take up a fair amount of the space :)

I have posted a few pics showing some of the construction which may be of interest to you.

http://usera.imagecave.com/djcol/Hexbeam/

Hopefully in the next few days (weather permitting) i will check the tuning.
I still have some slack in the wires which needs tweaking a little and then finally i (or the xyl more likely) will decide where to put it and more importantly how to get it there :)

Regards Colin
(M3XBM)

2621. Re: Hexbeam Progress

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-13 19:10:14 UTC
From: ownsyar
Topic: 2620 Message: 2621

Hi,
Colin's (M3XBM)Hexbeam is looking good! I think the idea of mounting the rotor upside down seems a good solution to the mast/beam intersection. I also noted that the U-bolts seem to be "pre-rusted." I am not so sure that in a moist climate anything but stainless steel will last and it is certainly difficult to disasseble rusted hardware.
Good luck!
73
Allen KA5N

2622. Re: Hexbeam Progress

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-14 00:43:45 UTC
From: Colin
Topic: 2620 Message: 2622

Hi Allen
Thanks for the kind words.
The rotator solution was more of a necessity than anything else...i sold my crank up tower a while ago but kept the rotor,which is an older model Emotator.
Being too cheap to pay for a new bottom mast clamp (assuming they still make the) i decided to bolt the hex base plate to the top and move the top clamp to the bottom,the rotator is the right way up :)

The u-bolts are definitely rusty as they were in the air for 18mths,one of those temporary fixes that somehow end up being permanent.
Most of the hardware i`m using now is plastic (less metal in the antenna)
I don`t use hose clamps at the knee`s as I found the small plastic tubes at the knee connections tended to slide sideways when the elements were under tension,effectively pushing the tube out of the cable tie.
The plastic blocks, which use 3.5mm nickel plated brass bolts, solved this problem and were a lot cheaper than stainless hoseclamps.
They probably wouldn`t be very useful for a tapered spreader though ;)

73
Colin m3xbm

--- In hex-beam@yahoogroups.com, "ownsyar" <ownsyar@y...> wrote:
> Hi,
> Colin's (M3XBM)Hexbeam is looking good! I think the idea of mounting
> the rotor upside down seems a good solution to the mast/beam
> intersection. I also noted that the U-bolts seem to be "pre-rusted."
> I am not so sure that in a moist climate anything but stainless steel
> will last and it is certainly difficult to disasseble rusted hardware.
> Good luck!
> 73
> Allen KA5N

2623. hexbeam update

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-14 13:21:40 UTC
From: Colin
Topic: 2623 Message: 2623

Just to confirm the hexbeam needed no tuning as far as swr is concerned.
I hooked the feed to the 20m bolts and ran the coax down the post
between the cold side and reflector,excess coax was coiled to form a
balun.
Every band returned a low swr towards the top of the band with a higher
swr towards the bottom,which is to be expected.
10m swr is higher but also not unexpected.
The hex happily tunes to 40m using the LDG AT11-MP auto tuner.

It may all change for the worse when i raise the antenna (it is at very
low height for now) but i`m extremely pleased with the outcome.

73
Colin M3XBM

2624. Re: hexbeam update

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-14 13:32:18 UTC
From: w4wb
Topic: 2623 Message: 2624

NIce work Colin. As you raise the antenna from a very low height, the resonance freq will rise. For example, with my Hex-Beam at 1-1/2 m, the 20 m resonance was about 100 kHz too low, but when put at operating height, it was then just where I wanted it in the low end of 20 m. 10 m SWR was FB too.
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
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> low height for now) but i`m extremely pleased with the outcome.
>
> 73
> Colin M3XBM

2625. Re: hexbeam update

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-14 14:01:44 UTC
From: Colin
Topic: 2623 Message: 2625

Hi Barry
Thanks for the info, it sounds perfect as the 20m element is only
about 5ft off the ground.
I added 4" of wire to each half element measurement (which is folded
back on itself for now) just in case i needed to extend them.
Heres a quick run down of what i have so far:
14.100: 1.3
14.200: 1.5
14.300: 1.7

18.100: 1.5
18.150 1.4

21.000 1.9
21.100 1.8
21.200 1.7

24.900 1.0
25.000 1.2

28.000 1.2
28.500 2.0
29.000 3.0

It would seem that 10m might need shortening somewhat once it`s
airborne.
Regards Colin M3XBM

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> NIce work Colin. As you raise the antenna from a very low height,
the
> resonance freq will rise. For example, with my Hex-Beam at 1-1/2
m,
> the 20 m resonance was about 100 kHz too low, but when put at
> operating height, it was then just where I wanted it in the low end
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> 73,
> Barry W4WB
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> > balun.
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> > It may all change for the worse when i raise the antenna (it is
at
> very
> > low height for now) but i`m extremely pleased with the outcome.
> >
> > 73
> > Colin M3XBM

2626. 6m results

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-14 14:30:32 UTC
From: Colin
Topic: 2626 Message: 2626

I just checked to see what happens on 6m here are those results:
52.000 2.0
52.100 1.9
52.200 1.5
52.300 1.5
52.500 1.0
52.600 1.0
52.700 1.0
52.800 1.2
52.900 1.4
53.000 1.6
53.100 2.0

I wonder if anyone has had similar results?

73 Colin
M3XBM

2627. hex beam questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-14 19:28:59 UTC
From: w5ckp@juno.com
Topic: 2627 Message: 2627

Hi Barry, I have built a 20 m. hex beam, with plans to add 4 more bands as I get more confident with my efforts. Two questions;1) Is it important to have taut wires, except for looks, or is the antenna ok performance-wise with non-tight element wires? 2) How much leeway is allowed for tip spacing? I hope to have additional bands operating by friday, depends on weather because SW Louisiana is hot as hell outside. Thanks, David, W5CKP

2628. Re: hex beam questions

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-15 02:01:42 UTC
From: w4wb
Topic: 2627 Message: 2628

Hi David,

It is best to have the wires taunt. They should also be in the same plane ... driven and reflector. Once you get the wires located correctly, the tip spacing basically takes care of itself. I assume you are following the formulas. All of the elements should lie in a plane for each band and the planes should be parallel to one another.

Good time to get the beam up and working ... P5/KA2HTV should be on 20 m this coming weekend if not before. Dave will be using a 20 m Hex-Beam and have a 700 W amp. Keeping fingers crossed to work the rarest of the rare.

I must admit that I will not be using the Hex-Beam to try to work Dave, but instead some guys and I in the North Alabama DX Club erected a V-Beam on top of a local mountain in a remote area. It has 450' legs, 75' at the apex, 25 deg apex angle, and leg ends are about 35'. For a TOA of 9 degs (highest we can use here according to prediction code), the gain is 13 dBi with a total beam width of 23 degs. This antenna is aimed directly at North Korea. Initial tests demonstrated that it is very quiet.

I understand about the heat down there ... I grew up in Baton Rouge and well remember the 95/95 days.

GL,
Barry W4WB

--- In hex-beam@yahoogroups.com, "w5ckp@j..." <w5ckp@j...> wrote:
> Hi Barry, I have built a 20 m. hex beam, with plans to add 4 more bands as I get more confident with my efforts. Two questions;1) Is it important to have taut wires, except for looks, or is the antenna ok performance-wise with non-tight element wires? 2) How much leeway is allowed for tip spacing? I hope to have additional bands operating by friday, depends on weather because SW Louisiana is hot as hell outside. Thanks, David, W5CKP

2629. Re: [hex-beam] 6m results

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-15 15:46:07 UTC
From: Darren GØTSM
Topic: 2626 Message: 2629

Yes, nearly identical, SWR about 3:1 at 50.100, however, I had two main lobes +/- 45deg with a null at 0 deg. No real disadvantage for sporadic E since you can park the Hex at 90deg and from the UK and put a reasonable signal into Italy and Scandinavia without having to turn the antenna.

Darren

Colin wrote:

> I just checked to see what happens on 6m here are those results:
> 52.000 2.0
> 52.100 1.9
> 52.200 1.5
> 52.300 1.5
> 52.500 1.0
> 52.600 1.0
> 52.700 1.0
> 52.800 1.2
> 52.900 1.4
> 53.000 1.6
> 53.100 2.0
>
> I wonder if anyone has had similar results?
>
> 73 Colin
> M3XBM
>
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4&s=78&.sig=nophR1-h7ShXYe5gy8M6WQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4&s=78&.sig=635Q0aH_KfGQMHA8eL0aLw>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4&s=78&.sig=FnsugybLK5zQ_ysmpJeBKQ>
>
> Ferrite bead
> <http://groups.yahoo.com/gads?t=ms&k=Ferrite+bead&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4&s=78&.sig=RII4nPQG0W5fxnRTgzD_lg>
>

>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "hex-beam
> <http://groups.yahoo.com/group/hex-beam>" on the web.
>
> * To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
> <mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>

[Non-text portions of this message have been removed]

2630. Re: 6m results

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-15 16:16:56 UTC
From: Colin
Topic: 2626 Message: 2630

Hi Darren
Its good to compare results,it reassures me i got it right ;)
I finally got the rotor on it today and it stands dominating my
garden at the dizzy height of 11ft to the 20m wire hi.

http://usera.imagecave.com/djcol/Hexbeam/my5BandHexbeamcloseup.jpg

Any lower and i get hooked up in a neighbours fir tree.
10m definitely needs a trim as the elements are very loose and the
swr reflects this, but i`ll wait until i need the band i think.

I just need to make some contacts now..

73 Colin M3XBM

--- In hex-beam@yahoogroups.com, Darren GØTSM <hexbeam@g...> wrote:
> Yes, nearly identical, SWR about 3:1 at 50.100, however, I had two
main
> lobes +/- 45deg with a null at 0 deg. No real disadvantage for
sporadic
> E since you can park the Hex at 90deg and from the UK and put a
> reasonable signal into Italy and Scandinavia without having to turn
the
> antenna.
>
> Darren
>
>
>
> Colin wrote:
>
> > I just checked to see what happens on 6m here are those results:
> > 52.000 2.0
> > 52.100 1.9
> > 52.200 1.5
> > 52.300 1.5
> > 52.500 1.0
> > 52.600 1.0
> > 52.700 1.0
> > 52.800 1.2
> > 52.900 1.4
> > 53.000 1.6
> > 53.100 2.0
> >
> > I wonder if anyone has had similar results?
> >

> > 73 Colin
> > M3XBM
> >
> >
> >
> >
> > SPONSORED LINKS
> > Ham radio
> > <http://groups.yahoo.com/gads?
t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply
&w4=Ferrite+bead&c=4&s=78&.sig=nophR1-h7ShXYe5gy8M6WQ>
> > Craft hobby
> > <http://groups.yahoo.com/gads?
t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supp
ly&w4=Ferrite+bead&c=4&s=78&.sig=635Q0aH_KfGQMHA8eL0aLw>
> > Hobby and craft supply
> > <http://groups.yahoo.com/gads?
t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and
+craft+supply&w4=Ferrite+bead&c=4&s=78&.sig=FnsugybLK5zQ_ysmpJeBKQ>
> >
> > Ferrite bead
> > <http://groups.yahoo.com/gads?
t=ms&k=Ferrite+bead&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+sup
ply&w4=Ferrite+bead&c=4&s=78&.sig=RII4nPQG0W5fxnRTgzD_lg>
> >
> >
> >
> > ---

> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "hex-beam
> > <http://groups.yahoo.com/group/hex-beam>" on the web.
> >
> > * To unsubscribe from this group, send an email to:
> > hex-beam-unsubscribe@yahoogroups.com
> > <mailto:hex-beam-unsubscribe@yahoogroups.com?
subject=Unsubscribe>
> >
> > * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service <http://docs.yahoo.com/info/terms/>.
> >
> >
> > ---

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> [Non-text portions of this message have been removed]

2631. EZNEC Model of 20-10m 5 band beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-15 17:02:59 UTC
From: Dave
Topic: 2626 Message: 2631

I just purchased EZNEC and was wondering if anyone had a model for a 5 band, 20-10m hex style beam. I browsed the files section a bit yesterday but couldn't find one for those bands. I figure someone's probably built one already, and didn't want to spend time re-inventing it, so please send me a copy if you can share yours.

Thanks in advance,

- Dave
W6OT

2632. in the files section DL7IO [hex-beam] EZNEC Model of 20-10m 5 band beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-15 17:38:33 UTC
From: n9iww@verizon.net
Topic: 2626 Message: 2632

yes go to DL7IO File Section in yahoo group he has it there N9IWW
or go to www.dl7io.de on his site there is the file you want

On 15 Aug 2005 at 10:02, Dave wrote:

> I just purchased EZNEC and was wondering if anyone had a model for a 5
> band, 20-10m hex style beam. I browsed the files section a bit
> yesterday but couldn't find one for those bands. I figure someone's
> probably built one already, and didn't want to spend time re-inventing
> it, so please send me a copy if you can share yours.
>
> Thanks in advance,
>
> - Dave
> W6OT
>
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>
> Yahoo! Groups Links
>
>
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>
>
>
>
> --
> No virus found in this incoming message.
> Checked by AVG Anti-Virus.
> Version: 7.0.338 / Virus Database: 267.10.9/72 - Release Date: 8/14/2005
>

2633. i have found one that is in another program mmana Model of 20-10m 5 band beam N9IWW

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-15 21:40:54 UTC
From: n9iww@verizon.net
Topic: 2626 Message: 2633

Here is the program to run this file sorry i can't find just exactly what you want 20-10 but there
is 20-12 on on Dl7Io site. N9IWW

Here is the program for the file above that is 20-10m
Link below. mmana antenna program the word free help.
free antenna program.
http://mmhamsoft.ham-radio.ch/mmana/index.htm

On 15 Aug 2005 at 10:02, Dave wrote:

> I just purchased EZNEC and was wondering if anyone had a model for a 5
> band, 20-10m hex style beam. I browsed the files section a bit
> yesterday but couldn't find one for those bands. I figure someone's
> probably built one already, and didn't want to spend time re-inventing
> it, so please send me a copy if you can share yours.
>
> Thanks in advance,
>
> - Dave
> W6OT
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> Yahoo! Groups Links
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>
> --
> No virus found in this incoming message.
> Checked by AVG Anti-Virus.
> Version: 7.0.338 / Virus Database: 267.10.9/72 - Release Date: 8/14/2005
>

The following section of this message contains a file attachment
prepared for transmission using the Internet MIME message format.

If you are using Pegasus Mail, or any other MIME-compliant system,
you should be able to save it or view it from within your mailer.
If you cannot, please ask your system administrator for assistance.

---- File information -----------
File: LZ2BE 5Band Hex.maa
Date: 13 Aug 2005, 18:58
Size: 3754 bytes.
Type: Unknown

[Non-text portions of this message have been removed]

2634. How does it work?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-15 22:01:23 UTC
From: Colin
Topic: 2634 Message: 2634

Well i`ll say it`s working pretty good..
With the hexbeam at just 3.4m (11ft)to the 20m element
WX2F(Lew)in Long Island gave me a nice 58 report..not too bad for just
10 watts!
All you need is a hexbeam :)

Colin M3XBM

2635. feeding multi-bander.

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-15 13:46:43 UTC
From: bigyagi
Topic: 2635 Message: 2635

i built a mono-bander, and was very impressed with it, as far as f/b gain, and band-width. i'm now looking at building a four band antenna, 10/12/15/17m. what would be the preferred way of feeding the antenna,without getting into using an external relay-box!
bob.

2636. P5 DXpedition

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-21 05:00:43 UTC
From: w4wb
Topic: 2636 Message: 2636

Folks,

It is not looking good for hearing P5/KA2HTV on the air. Dave has to return (last we knew anyway) on the evening of the 23rd. He took quite a bit of equipment with him and had the documents for operating in the DPRK during August.

Primary station is an IC-706MKIIG, ACOM 1010 amp (700 W), W4RT speech compressor, Heil headset, and a 20-m Hex-Beam (provided by Traffie). If he can get on, he should be heard.

He has a backup station comprising an IC-735, W4RT speech compressor, and a 5-band dipole I made for him with a 1:1 balun provided by DX Engineering. The dipole does not need a tuner on 40, 20, 17, 12, and 10 m (SWR is about 1.2:1 to 1.4:1). I selected this approach since 40, 20, and 17 m will be the prime bands for a while. This equipment, plus a MFJ tuner, is planned to be left for future trips or hopefully as the seed for an amateur radio club.

We can hope that Dave still can get on the air during the next couple of days.

73,
Barry W4WB

2637. Re: P5 DXpedition

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-21 18:47:40 UTC
From: Colin
Topic: 2636 Message: 2637

Hi Barry
Thanks for the info.
I noticed Dave`s call on the dxcluster (maybe yesterday or perhaps the day before) but could not confirm if it was real or not.

Do you have any details regarding specific frequencies Dave might be monitoring if he does manage to put the station together?

It might be useful to get a small headstart on the competition hi

73
Colin M3XBM

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> Folks,
>
> It is not looking good for hearing P5/KA2HTV on the air. Dave has to
> return (last we knew anyway) on the evening of the 23rd. He took
> quite a bit of equipment with him and had the documents for operating
> in the DPRK during August.
>
> Primary station is an IC-706MKIIG, ACOM 1010 amp (700 W), W4RT speech
> compressor, Heil headset, and a 20-m Hex-Beam (provided by Traffie).
> If he can get on, he should be heard.
>
> He has a backup station comprising an IC-735, W4RT speech compressor,
> and a 5-band dipole I made for him with a 1:1 balun provided by DX
> Engineering. The dipole does not need a tuner on 40, 20, 17, 12, and
> 10 m (SWR is about 1.2:1 to 1.4:1). I selected this approach since
> 40, 20, and 17 m will be the prime bands for a while. This
> equipment, plus a MFJ tuner, is planned to be left for future trips
> or hopefully as the seed for an amateur radio club.
>
> We can hope that Dave still can get on the air during the next couple
> of days.
>
> 73,
> Barry W4WB

2638. [hex-beam] Spreaders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-22 05:16:36 UTC
From: Tom King
Topic: 2636 Message: 2638

I know that people have used PVC before, But what kind
of PVC? Was it the Schedule 40 Ridged electrical
Conduit? I was thinking of trying that. using 1" ID
with 3/4" id shoved into it for stiffener for the
first bit. Any sugestions?

Thanks,
Tom
AC7WD

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2639. Membership Continues to Grow

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-25 04:39:43 UTC
From: w4wb
Topic: 2639 Message: 2639

Folks,

Our group now has 1300 regular members and about 300 bouncing members for a total of almost 1600!

When this group was started, there were still a number of people wondering if the Hex-Beam really worked, if so how well, and so on. I find it interesting that the question of "if the Hex-Beam really works" has essential evaporated. Over a thousand Hex-Beams, made by Traffie or homemade, are now in use around the world and the user reports are very good.

Experimentation continues and interesting discoveries have been made and shared on this list. I am very pleased to observe the willingness of members to help each other solve problems, share models and data, and answer questions.

Perhaps the "next challenge" is to see who will be the first to build a 60 m or 80 m Hex-Beam. Of course, building it is only a part of the challenge ... you have to have a tower tall enough and be able to install it!

Tnx es 73,
Barry W4WB
Moderator

2640. Re: [hex-beam] Membership Continues to Grow

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-25 05:09:40 UTC
From: John Lepire
Topic: 2639 Message: 2640

just for your FYI ... in my groups i tend to delete the bouncers , at least the hard bouncers . if they hard bounce it means the yahoo name don't exist no more . f its a soft bounce then it means there mail box is full and in my group usually give them time to see if they finally empty them . either way if it bounces there not getting mail .
I enjoy the posts , i was gonna make one but someone sold me a mosley tri beam ;-) but find the discusstion here interesting , keep hamming it up john lepire kd5dfm 73's
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Wednesday, August 24, 2005 11:39 PM
Subject: [hex-beam] Membership Continues to Grow

Folks,

Our group now has 1300 regular members and about 300 bouncing members for a total of almost 1600!

When this group was started, there were still a number of people wondering if the Hex-Beam really worked, if so how well, and so on. I find it interesting that the question of "if the Hex-Beam really works" has essential evaporated. Over a thousand Hex-Beams, made by Traffie or homemade, are now in use around the world and the user reports are very good.

Experimentation continues and interesting discoveries have been made and shared on this list. I am very pleased to observe the willingness of members to help each other solve problems, share models and data, and answer questions.

Perhaps the "next challenge" is to see who will be the first to build a 60 m or 80 m Hex-Beam. Of course, building it is only a part of the challenge ... you have to have a tower tall enough and be able to install it!

Tnx es 73,
Barry W4WB
Moderator

YAHOO! GROUPS LINKS

a.. Visit your group "hex-beam" on the web.

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2641. Re: Membership Continues to Grow

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-25 07:54:14 UTC
From: Colin
Topic: 2639 Message: 2641

Thats a lot of hexbeams Barry.
I`m amazed that with so many in use i still haven`t got one in the log..I even added a "Hexbeam Equipped" section just in case.
I wonder what happened to the hexbeam net frequencies that used to be displayed on the homepage.
It would be great to work other hexbeam users.

73
Colin M3XBM

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
> Folks,
>
> Our group now has 1300 regular members and about 300 bouncing members
> for a total of almost 1600!
>
> When this group was started, there were still a number of people
> wondering if the Hex-Beam really worked, if so how well, and so on. I
> find it interesting that the question of "if the Hex-Beam really works"
> has essential evaporated. Over a thousand Hex-Beams, made by Traffie
> or homemade, are now in use around the world and the user reports are
> very good.
>
> Experimentation continues and interesting discoveries have been made
> and shared on this list. I am very pleased to observe the willingness
> of members to help each other solve problems, share models and data,
> and answer questions.
>
> Perhaps the "next challenge" is to see who will be the first to build a
> 60 m or 80 m Hex-Beam. Of course, building it is only a part of the
> challenge ... you have to have a tower tall enough and be able to
> install it!
>
> Tnx es 73,
> Barry W4WB

> Moderator

2642. Re: Membership Continues to Grow

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-25 19:33:29 UTC
From: w4wb
Topic: 2639 Message: 2642

John,

The odd thing about the way Yahoo! handles bouncers is that they often get some mail although hard bouncers get less or none at times. Many of the bouncers actually use the web to view and don't realize they have problems. I used to "fix" the problems, but just leave it alone now.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "John Lepire" <kd5dfm@b...> wrote:
> just for your FYI ... in my groups i tend to delete the bouncers , at least the hard bouncers . if they hard bounce it means the yahoo name don't exist no more . f its a soft bounce then it means there mail box is full and in my group usually give them time to see if they finally empty them . either way if it bounces there not getting mail .
> I enjoy the posts , i was gonna make one but someone sold me a mosley tri beam ;-) but find the discusstion here interesting , keep hamming it up john lepire kd5dfm 73's

2643. Re: Membership Continues to Grow

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-25 19:49:03 UTC
From: w4wb
Topic: 2639 Message: 2643

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
> Thats a lot of hexbeams Barry.
> I`m amazed that with so many in use i still haven`t got one in the
> log..I even added a "Hexbeam Equipped" section just in case.
> I wonder what happened to the hexbeam net frequencies that used to be
> displayed on the homepage.
> It would be great to work other hexbeam users.
>
> 73
> Colin M3XBM

Colin,

The HB Net sort of died away after a while. Perhaps, there is only so much you can say on the topic. :-) What you might do is to post a notice that you would like to work some other Hex-Beam users and I bet you will get a number of replies. I will be happy to work you after this weekend ... I have to recover my station gear from the P5-Special antenna site. I have worked a lot of Hex-Beam users, both commerical and homebrew. FWIW, Dave's equipment was held for examination by DPRK authorities when he arrived in N. Korea. After a week or so, he was able to meet with the proper authorities, who were very polite and interested in learning about amateur radio. He was allowed to give them a demonstration and they appeared impressed. Regrettably, they were not able to authorize a license for this trip (the documents he received before were approved by a person not authorized to do so ... darn!), but told him that they would favorably consider his application for a P5 license. At least he knows who is the proper authority now, which is no small feat! Why is this important? First, P5 is the rarest of the rare most folks consider. Second, Dave's primary antenna for that activity is a 20-m Hex-Beam specially made by Traffie for compact travel. Now that would have been a great Hex-Beam to Hex-Beam QSO for your log! :-) Oh yes, some of the equipment Dave took was "donated" to the DPRK. It is suppose to be available on the next visit. Interesting.
73,
Barry W4WB

2644. Re: [hex-beam] Re: Membership Continues to Grow

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-25 19:46:25 UTC
From: John Lepire
Topic: 2639 Message: 2644

be careful , if you mean you reset them . i was told "not to reset the bouncers" as this gives them a way to hack into your system . now this is what i was told , don't know for sure . now i was told that hard bouncers were accounts that didn't exist anymore ?? again i could be wrong and have been mis informed . for what i was told when it soft bounces yahoo is getting a response that the email account is full and can accept no more , when it hard bounces yahoo is getting a response that there is no such account . ;-) after a while if an account isn't used yahoo will close a account , i think per 6 months of no activity and i think MSN dose this as well .
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Thursday, August 25, 2005 2:33 PM
Subject: [hex-beam] Re: Membership Continues to Grow

John,

The odd thing about the way Yahoo! handles bouncers is that they often get some mail although hard bouncers get less or none at times. Many of the bouncers actually use the web to view and don't realize they have problems. I used to "fix" the problems, but just leave it alone now.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "John Lepire" <kd5dfm@b...> wrote:
> just for your FYI ... in my groups i tend to delete the bouncers , at least the hard

[Non-text portions of this message have been removed]

2645. Re: [hex-beam] Re: Membership Continues to Grow

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-25 19:48:44 UTC
From: John Lepire
Topic: 2639 Message: 2645

instead of a hex beam net how a hex beam event 4 times a year ??? as with field day something to look forward to and you get to see how the antenna works during different seasons .
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Thursday, August 25, 2005 2:49 PM
Subject: [hex-beam] Re: Membership Continues to Grow

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@y...> wrote:
> Thats a lot of hexbeams Barry.
> I`m amazed that with so many in use i still haven`t got one in the
> log..I even added a "Hexbeam Equipped" section just in case.
> I wonder what happened to the hexbeam net frequencies that used to be
> displayed on the homepage.
> It would be great to work other hexbeam users.
>
> 73
> Colin M3XBM

Colin,

The HB Net sort of died away after a while. Perhaps, there is only so much you can say on the topic. :-)

[Non-text portions of this message have been removed]

2646. Re: Membership Continues to Grow

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-26 13:33:59 UTC
From: Colin
Topic: 2639 Message: 2646

Hi Barry
Sorry to hear that Dave was unsuccessful this time but at least some headway was made for next time.

My hexbeam is still proving itself very effective even at 11ft.
So far i haven`t been accused of used using more than the 10w i`m allowed, but i`m sure some might be thinking it!!
Cuba (4600miles)on 15m (5/9 report)and Morroco on 17m (5/7 report) added to the log last night on a genuine 10 watts output,which was probably closer to 5-7 watts of actual talk power!

Breaking a pile up once its in full flow is almost impossible for me, but if i`m one of the first there it`s very do-able with the hexbeam :)

It`s a pity about the HB net,a list of possible frequencies would be nice as it should increase the chances of working another hexbeam user.
I look forward to working you and others from the group,but not on 10m as i can`t tx on that one yet hi

73
Colin M3XBM

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:

> The HB Net sort of died away after a while. Perhaps, there is only so
> much you can say on the topic. :-) What you might do is to post a
> notice that you would like to work some other Hex-Beam users and I bet
> you will get a number of replies. I will be happy to work you after
> this weekend ... I have to recover my station gear from the P5-Special
> antenna site. I have worked a lot of Hex-Beam users, both commerical
> and homebrew. FWIW, Dave's equipment was held for examination by DPRK
> authorities when he arrived in N. Korea. After a week or so, he was
> able to meet with the proper authorities, who were very polite and
> interested in learning about amateur radio. He was allowed to give
> them a demonstration and they appeared impressed. Regrettably, they
> were not able to authorize a license for this trip (the documents

he
> received before were approved by a person not authorized to do
so ...
> darn!), but told him that they would favorably consider his
application
> for a P5 license. At least he knows who is the proper authority
now,
> which is no small feat! Why is this important? First, P5 is the
> rarest of the rare most folks consider. Second, Dave's primary
antenna
> for that activity is a 20-m Hex-Beam specially made by Traffie for
> compact travel. Now that would have been a great Hex-Beam to Hex-
Beam
> QSO for your log! :-) Oh yes, some of the equipment Dave took
> was "donated" to the DPRK. It is suppose to be available on the
next
> visit. Interesting.
> 73,
> Barry W4WB

2647. Hex-to-Hex QSO on 30 Meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-26 23:20:00 UTC
From: W1GQL
Topic: 2647 Message: 2647

Today I put put a 30 meter Hexbeam and one of my first contacts was Holger DL7IO who was also using a Hexbeam. There can't have been many 30 meter Hex-to-Hex QSOS in the past. I was very pleased, needless to say. My first Hexbeam was built using EZNEC dimensions from Holger's spreadsheet and Holger had recently visited my Homebrew Hexbeam Webpage and made nice comments about it.

My new 30 Meter Hex is continuously loaded (like a "Slinky" antenna) and is the same size as a 20 Meter full size Hex. I will be putting the specs for it on my Homebrew Hexbeam Webpage in the near future.

If you haven't visited the webpage, please do. And sign the Guestbook! The page is at:

http://www.midcoast.com/~w1gql/hex/hexbeam.htm

Dave W1GQL in Maine

2648. Re: [hex-beam] Hex-to-Hex QSO on 30 Meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-27 02:56:35 UTC
From: bur52@aol.com
Topic: 2647 Message: 2648

That is what I was planning for 75 meters...
Nice work!
JohnB

[Non-text portions of this message have been removed]

2649. HEX on 40-10 Meters UK

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-28 16:56:17 UTC
From: George Shaw
Topic: 2647 Message: 2649

Folks I am looking ideas and suggestions for a new antenna installation at a new QTH.

Space is NOT a problem as I have 6 acres to play with.

I want to be able to cover with a HEX array the bands 40m through to 10m with main activity on SSB and Data sections of the bands.

What centre frequency will each be cut for? What is the best combination a HX-40-30i to cover 40m 30m and a HX-5Bi to cover 20-17-15-12-10M? What support is required (I was thinking a 2" (50mm) tube support with guys) at what height total and what spacing is required for the combination mentioned? What would be required to rotate this and would it be a case of rotating the hole support pole with the rotator mounted at ground level or rotate each one separate? If separate how would this be mounted? Could the pole support go through the centre of each beam if 2" mounting plates where ordered ? And what effect if any would the aluminium pole have ? What way would the array be connected to the coax if only a single feeder where used?

Sorry for so many questions.

--
George Shaw MI3GTO / 2I0GTO

" Any Sufficiently Advanced Technology
is Indistinguishable from Magic"
---Arthur C. Clarke

Mobile: +44 (0) 7740 361 163
Primary Email: mi3gto@...
Secondary Email: george.shaw@...
Web: http://www.digipeater.net
EchoLink & eQSO connected 24/7
Monitoring: 7.087.50 LSB 14.342.5/18.157.5/144.200.0/144.300.00 USB 24/7

2650. Re: HEX on 40-10 Meters UK

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-28 17:31:01 UTC
From: Colin
Topic: 2647 Message: 2650

Hi George,
A 40m hexbeam is about 38ft across and would ideally be 60ft (18-20m) above the ground..i`m thinking a 2" pole might not be up to the job.

A 5 band hexbeam doesn`t need so much height(35-40ft) so a 2" mast would fine for that.

The pvc center post of a hexbeam carries the parallel feedlines so it isn`t possible to run the mast through it.
However, you could sidemount the 5 bander below the 40/30 hexbeam though, but interaction with the metal mast is a possibility.

I use a medium duty rotator for a homebrew 5 bander and it doesn`t struggle at all.
A 40m hex beam would likely need something a little heavier duty.

If you are buying the antenna`s direct from Mike you could probably have them cut for whatever part of the band you want.

Just IMHO ;)

DL7IO and others are much better qualified to answer your questions as they operate multiband 40m hexbeams

73
Colin M3XBM

--- In hex-beam@yahoogroups.com, "George Shaw" <mi3gto@d...> wrote:
> Folks I am looking ideas and suggestions for a new antenna installation at a
> new QTH.
>
> Space is NOT a problem as I have 6 acres to play with.
>
> I want to be able to cover with a HEX array the bands 40m through to 10m
> with main activity on SSB and Data sections of the bands.
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> What centre frequency will each be cut for? What is the best combination a
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> rotate each one separate? If separate how would this be mounted?
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> pole support go through the centre of each beam if 2" mounting
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> Mobile: +44 (0) 7740 361 163
> Primary Email: mi3gto@d...
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> EchoLink & eQSO connected 24/7
> Monitoring: 7.087.50 LSB 14.342.5/18.157.5/144.200.0/144.300.00 USB
24/7

2651. Re: HEX on 40-10 Meters UK

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-28 19:57:38 UTC
From: dl7io
Topic: 2647 Message: 2651

Hello George & all other readers,
congrats to that property and your possibilities.

I have spent a lot of time with modelling hexagonal beams.
But I have not been able to get more than 5 bands working.

So you will have to go for minimum 2 antennas.

My situation was somehow close to yours. Not 6 acres but close to 1 acre. And my taget was to get all bands from 40-10m rotatable on 1 tower. My decision was a "DL7IO-40-4" for 40/30/20/17m. This one also plays well on 15m with the 40m element. So it is more or less a 5-bander.
For 10/12m I was looking for more than 2 folded elements and had modelled a quad antenna with 2 elements for 15m and 3 for 10&12m (3m boom). Unfortunally ;-) i got a 6 element yagi for 10m (10m boom) for only a few bugs and so this quad project has never been finished. The nice thing with the quad was that the beam would see only small wire dimensions of the quad, naming the top element section.

My first question would be:
What tower is available? My opinion regarding height is a bit different from others. As I'm going mainly for DX I think as high as possible is best. And 18-20m is the minimum for good results on 40m. If you will be loud in Europe make a vertical loop at about 10-15m.

If you have only 1 tower, try to make about 3-4m top mast wich is rotating. Put an antenna for the higher bands close to the top bearing and the 40m beam on top.
You can use a hexagonal beam as well. A bit sidemounted from the mast is no problem for the beam. We have done installations with other antennas mounted above the small hexagonal beam and the rotating mast going through the beam. I have also modelled bigger hf systems below the 40m multiband beams without serious influence. (3 element 20m and/or tennadyne 10 elements logper only 2 m below the DL7IO-40-4).

I now have 4m between the 40m baseplate and the lower beam. My rotating mast coming out of a YAESU 1000GDX is a 60mm DURAL with 5mm thick walls (very strong, under high pressure made aluminum). The distance between top bearing and baseplate of the 40m beam is 4,5 m or 14ft!

We had several force 12 storms meanwhile without any problem for the antenna system.

I have calculated the static as well and the worst case is force 12 wind or more and ice of 3cm radius (means 6cm or 2,36 inch diameter

of the ice!!!). And the point where it would break would be within the steel tower top segment and not in the rotating mast.

Fortunally the wire elements would break first with so much ice, reduce the wind load of the system dramatically and so no serious damage for the tower is expected.

But back to your case. Take a 40m+ hexagonal beam and think about more elements on the higher bands (10/12/15m) if you have space available.
If you can separate the antennas for more than 6-7m you also might think about stacking and go for 2 beams with overlapping bands.

Best Regards
Holger

PS. Dave, W1GQL, nice meeting you on 30. I'm sure this was the first 30m hex-hex contact. Let me please know how you made the beam within the 20m dimensions as I'm still looking for the 80m solution.

--- In hex-beam@yahoogroups.com, "George Shaw" <mi3gto@d...> wrote:
> Folks I am looking ideas and suggestions for a new antenna installation at a
> new QTH.
>
> Space is NOT a problem as I have 6 acres to play with.
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> I want to be able to cover with a HEX array the bands 40m through to 10m
> with main activity on SSB and Data sections of the bands.
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> What centre frequency will each be cut for? What is the best combination a
> HX-40-30i to cover 40m 30m and a HX-5Bi to cover 20-17-15-12-10M? What
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> what height total and what spacing is required for the combination
> mentioned? What would be required to rotate this and would it be a case of
> rotating the hole support pole with the rotator mounted at ground level or
> rotate each one separate? If separate how would this be mounted? Could the
> pole support go through the centre of each beam if 2" mounting plates where
> ordered ? And what effect if any would the aluminium pole have ? What way
> would the array be connected to the coax if only a single feeder where used?
>

> Sorry for so many questions.
>
> --
> George Shaw MI3GTO / 2I0GTO
>
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> Mobile: +44 (0) 7740 361 163
> Primary Email: mi3gto@d...
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> EchoLink & eQSO connected 24/7
> Monitoring: 7.087.50 LSB 14.342.5/18.157.5/144.200.0/144.300.00 USB
24/7

2652. RE: [hex-beam] Re: HEX on 40-10 Meters UK

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-08-29 05:43:12 UTC
From: George Shaw
Topic: 2647 Message: 2652

dl7io Thanks for the info. I tried to email you direct but my email is rejected by QSL.net as my ISP server is listed in one of these anti-spam databases. Have you another email I can post to? I am receiving mail 100% and yes I am interested in your idea.

73

--
George Shaw MI3GTO / 2I0GTO

" Any Sufficiently Advanced Technology
is Indistinguishable from Magic"
---Arthur C. Clarke

Mobile: +44 (0) 7740 361 163
Primary Email: mi3gto@...
Secondary Email: george.shaw@...
Web: http://www.digipeater.net
EchoLink & eQSO connected 24/7
Monitoring: 7.087.50 LSB 14.342.5/18.157.5/144.200.0/144.300.00 USB 24/7

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of
Sent: 28 August 2005 20:58
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: HEX on 40-10 Meters UK

Hello George & all other readers,
congrats to that property and your possibilities.
Clip----------

2653. Re: [hex-beam] HEX on 40-10 Meters UK

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-03 11:58:38 UTC
From: Darren GØTSM
Topic: 2647 Message: 2653

George Shaw wrote:

> Folks I am looking ideas and suggestions for a new antenna
> installation at a
> new QTH.
>
> Space is NOT a problem as I have 6 acres to play with.
>
http://cgi.ebay.co.uk/150Ft-Guyed-Radio-Lattice-Mast_W0QQitemZ5804968976QQcategoryZ4672QQrdZ1QQcmdZViewItem

A 30/40M hex on this baby would make you king of the world, well at
least the prince of GI ;-) and it's even on the right island...

Darren

2654. spam from yahoo

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-08 07:01:50 UTC
From: zs1pdt
Topic: 2654 Message: 2654

Hi guy,s i woder if all you guy,s also get a lot of spam masseges from yahoo mine is just end list it never stop and is the only yahoo group or site which i vist please let my know many thanks zl1pdt in new zealand 73

2655. Re: [hex-beam] spam from yahoo

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-08 08:04:21 UTC
From: Darren GØTSM
Topic: 2654 Message: 2655

I use different email addresses for different mailing lists and the only email address that was harvested was from the Super Duper malling list.

Darren

zs1pdt wrote:

> Hi guy,s i woder if all you guy,s also get a lot of spam masseges from
> yahoo mine is just end list it never stop and is the only yahoo group
> or site which i vist please let my know many thanks zl1pdt in new
> zealand 73
>
>
>
>

2656. Re: [hex-beam] spam from yahoo

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-09 00:07:28 UTC
From: bur52@aol.com
Topic: 2654 Message: 2656

yep

[Non-text portions of this message have been removed]

2657. Re: [hex-beam] spam from yahoo

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-08 10:31:57 UTC
From: KD5NWA
Topic: 2654 Message: 2657

When you signed up for Yahoo there was a box that determined if you would receive emails from Yahoo associates. The default is Yes send me emails. You may want to go to your Yahoo settings and see if you can turn it off.

Darren GØTSM wrote:

>I use different email addresses for different mailing lists and the only
>email address that was harvested was from the Super Duper malling list.
>
>Darren
>
>
>
>zs1pdt wrote:
>
>
>
>>Hi guy,s i woder if all you guy,s also get a lot of spam masseges from
>>yahoo mine is just end list it never stop and is the only yahoo group
>>or site which i vist please let my know many thanks zl1pdt in new
>>zealand 73
>>
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>Yahoo! Groups Links
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--
Cecil
KD5NWA
<www.qrpradio.com>

'Never argue with an idiot. They drag you down to their level then beat you with experience.' -anon

2658. design for 2 hex's needed

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-08 16:21:57 UTC
From: Dennis
Topic: 2658 Message: 2658

Hello all,
Looking for a 40/30/20/17 hex and a 15/12/10/6 hex beam. Does anyone have the info on these or have already built these? I hope to mount these on a homebuilt tower about 8ft apart. Mount the high and hex just above the rotator, and the lower hex about 8ft above that. This leaves 2ft of pipe for the rotator and bearings.
Dennis KC9HXE

2659. Re: design for 2 hex's needed

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-10 18:57:55 UTC
From: dl7io
Topic: 2658 Message: 2659

Hello Dennis,
yes I have built a few of the 40-12m versions. I'm owning 2 myself, one is permanently installed and the other one is used for portable operation. Last weekend it was used by some friends during the IARU region 1 SSB fieldday (DM3W/p).

It is described on my webpage and is called "DL7IO-40-4" if you like to order the complete beam.
regards Holger, DL7IO
www.dl7io.de/reflectedw

--- In hex-beam@yahoogroups.com, Dennis <huckfinn1963@c...> wrote:
> Hello all,
> Looking for a 40/30/20/17 hex and a 15/12/10/6 hex beam. Does anyone
> have the info on these or have already built these? I hope to mount
> these on a homebuilt tower about 8ft apart. Mount the high and hex just
> above the rotator, and the lower hex about 8ft above that. This leaves
> 2ft of pipe for the rotator and bearings.
> Dennis KC9HXE

2660. Hex beam, Bow tie beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-11 22:02:03 UTC
From: m1fdz
Topic: 2660 Message: 2660

Hi, I am new to this group, however many years ago when AM was the mode of transmission I worked the world on 100w from an ART-13 transmitter using a 'Bow tie' Beam.
I stumbled across this site today and was amazed to see an antenna loosely based on that old beam of mine, I must admit the 'Bow tie' had amazing performance and was really effective at low altitude much similar to the 'Hex' just a slightly different shape, I was going to build a quad but the QTH here has a few space restrictions so this may be the answer. How does this compare to the Quad and commercial beam antennas? 73 Max M1FDZ

2661. Re: [hex-beam] Hex beam, Bow tie beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-12 20:22:05 UTC
From: Darren GØTSM
Topic: 2660 Message: 2661

I used to have a 'Bow tie beam' in the attic of my apartment in 1989, it was made of copper tube and supported by a wooden frame. It was a hexbeam, just called by a different name, the wooden frame made it look different.

I've carried out loads of side by side comparisons between several builds of 5 band hexbeams and other antennae including dipoles, yagis and quads.
It basically boils down to: How much space do you have?, what bands do you operate on?, do you operate CW and SSB? and how much money do you have spare in the bank! If I had the space I'd go for one of those BIG LPY's or try one of those Steppir beams for a multiband antenna.

There are several G's who subscribe to this list and they are there breaking all the pileups with their multiband Hex's, so that's quite a good indication that these antennae work. Obviously not as good as a monoband 3 ele yagi but quite close to a 2 ele.

One last thing, there is a local op near me who has a 4 ele 15M monoband yagi @ 24M high. When we were chatting to W6's earlier in the year both running 100W, I was only 2S units down on his signal. When I increased my power to 250W we were then neck and neck for hours at a time, oh, my hex is 20ft high ;-)

Darren G?TSM

m1fdz wrote:
> Hi, I am new to this group, however many years ago when AM was the
> mode of transmission I worked the world on 100w from an ART-13
> transmitter using a 'Bow tie' Beam.
> I stumbled across this site today and was amazed to see an antenna
> loosely based on that old beam of mine, I must admit the 'Bow tie' had
> amazing performance and was really effective at low altitude much
> similar to the 'Hex' just a slightly different shape, I was going to
> build a quad but the QTH here has a few space restrictions so this may
> be the answer. How does this compare to the Quad and commercial beam
> antennas? 73 Max M1FDZ
>
>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "hex-beam

> <http://groups.yahoo.com/group/hex-beam>" on the web.
>
> * To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
> <mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>

2662. Re: Hex beam, Bow tie beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-13 01:46:26 UTC
From: Colin
Topic: 2660 Message: 2662

I`m in agreement that for a small space (and bank balance) the 5 band hexbeam is hard to beat.
Big antennas need decent support structures and expensive rotors,not counting the cost of the antenna itself, personally i dont think the cash outlay is worth the gain difference (or the grief from the neighbours)..but i`m not a rich man :)

It is a lot more economical/possible to get a hexbeam to optimum height than most other beams due to weight and windloading.
So it could outperform a 3 ele monoband yagi at a less than ideal height.

Personally, as an M3, i`m very limited in my ability to compete with other stations especially if they`re running even modest power,pileups are a nightmare on 10w!
The hexbeam does allow me the occasional success.
I`m sure with some height and 100w i`ll be able to compete much better.
My best contact,thus far,is Cuba on 17m ..4600 miles, which in my book isn`t too shabby from a homebrew multibander (with 10w at the radio) on an 8ft pole in the garden.

73
Colin M3XBM

--- In hex-beam@yahoogroups.com, Darren GØTSM <hexbeam@g...> wrote:
> I used to have a 'Bow tie beam' in the attic of my apartment in 1989, it
> was made of copper tube and supported by a wooden frame. It was a
> hexbeam, just called by a different name, the wooden frame made it look
> different.
>
> I've carried out loads of side by side comparisons between several
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> It basically boils down to: How much space do you have?, what bands do
> you operate on?, do you operate CW and SSB? and how much money do you
> have spare in the bank! If I had the space I'd go for one of those BIG
> LPY's or try one of those Steppir beams for a multiband antenna.
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> There are several G's who subscribe to this list and they are there

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quite a
> good indication that these antennae work. Obviously not as good as
a
> monoband 3 ele yagi but quite close to a 2 ele.
>
> One last thing, there is a local op near me who has a 4 ele 15M
monoband
> yagi @ 24M high. When we were chatting to W6's earlier in the year
both
> running 100W, I was only 2S units down on his signal. When I
increased
> my power to 250W we were then neck and neck for hours at a time,
oh, my
> hex is 20ft high ;-)
>
>
> Darren GØTSM
>
>
>
> m1fdz wrote:
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> > transmitter using a 'Bow tie' Beam.
> > I stumbled across this site today and was amazed to see an antenna
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tie' had
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> > similar to the 'Hex' just a slightly different shape, I was going
to
> > build a quad but the QTH here has a few space restrictions so
this may
> > be the answer. How does this compare to the Quad and commercial
beam
> > antennas? 73 Max M1FDZ
> >
> >
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> > ----------

> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "hex-beam
> > <http://groups.yahoo.com/group/hex-beam>" on the web.
> >
> > * To unsubscribe from this group, send an email to:
> > hex-beam-unsubscribe@yahoogroups.com

> > <mailto:hex-beam-unsubscribe@yahoogroups.com?
subject=Unsubscribe>
> >
> > * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service <http://docs.yahoo.com/info/terms/>.
> >
> >
> > ----------

> >

2663. Bow tie

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-13 08:28:48 UTC
From: Paul van Dam
Topic: 2663 Message: 2663

Max,

Have not used a bow tie antenna, but my understanding of the bow tie antenna is that it is a fan dipole. (A dipole where you have multiple wires to improve on SWR bandwidth (see attached picture)). The hexbeam is a 2 element yagi, where element have been configured as a 'W', for the anatomy of the hexbeam see www.hexbeam.com or pictures at
http://groups.yahoo.com/group/hex-beam/

Paul van Dam, PA7UL

[Non-text portions of this message have been removed]

2664. 6 meter hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-21 23:37:28 UTC
From: Ken Allen
Topic: 2664 Message: 2664

I'm new to the group. I'm considering adding a 6M HB to my existing antenna stack. I have a TH6 and long beams for 2M & 440. I would like to add the 6M HB to the top of the mast, at 73 ft. This would be about 3 ft above the 2M beam. Would there be any problem with that arrangement? Is the 6M HB sensitive to height above ground like the HX-5Bi is?

Tnx for any opinions,
Ken, KB8KE

2665. Re: [hex-beam] 6 meter hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-22 06:49:17 UTC
From: Darren GØTSM
Topic: 2664 Message: 2665

I wouldn't bother with a Hex as you obviously have the space there,
you'd be better off with a 3 ele yagi. The yagi would have better gain
and front to back rejection.

Darren

Ken Allen wrote:
> I'm new to the group. I'm considering adding a 6M HB to my existing
> antenna stack. I have a TH6 and long beams for 2M & 440. I would
> like to add the 6M HB to the top of the mast, at 73 ft. This would be
> about 3 ft above the 2M beam. Would there be any problem with that
> arrangement? Is the 6M HB sensitive to height above ground like the
> HX-5Bi is?
>
> Tnx for any opinions,
> Ken, KB8KE
>
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>
> ---
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> ---
>

2666. 6 meter height

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-23 01:50:04 UTC
From: Mark Oswood
Topic: 2666 Message: 2666

You might also want to think about the optimum height
for a 6 meter beam. Higher is better for line of
sight.

However, if you are thinking about propogation at
longer distances (aurora, E-skip, etc), a 2el 6 meter
beam at 73 feet will result in multiple elevation
lobes with nulls at relatively low take-off angles
(approx 8 and 15 deg.) You can model this with the
HFTA software from the ARRL antenna book. This topic
was also covered in a recent edition of QST in the VHF
column.

73,
Mark KI0DI

> Message: 1
> Date: Wed, 21 Sep 2005 23:37:28 -0000
> From: "Ken Allen" <kb8ke@...>
> Subject: 6 meter hex-beam
>
> I'm new to the group. I'm considering adding a 6M
> HB to my existing
> antenna stack. I have a TH6 and long beams for 2M &
> 440. I would
> like to add the 6M HB to the top of the mast, at 73
> ft. This would be
> about 3 ft above the 2M beam. Would there be any
> problem with that
> arrangement? Is the 6M HB sensitive to height above
> ground like the
> HX-5Bi is?
>
> Tnx for any opinions,
> Ken, KB8KE
>
>

Mark C. Oswood, MD, PhD
oswoodm@...

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2667. SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-23 12:40:40 UTC
From: wa2aae
Topic: 2667 Message: 2667

I modified my 5 band Hex (could not get the SWR down on some bands) for 20/17/15M with the dimensions called out in a DL7IO presentation. The SWR on 20 and 17M is pretty flat at 1.5, but the 15M SWR is very high looking better at the high end of the band. Before I lower the antenna to tune 15M, I'm wondering how much I should try to prune the elements (1 or 2 inches?).

The Hex at 15 feet performs equally to my inverted V on top of the house. This is a good indication that when I mount the Hex in its final position at 28 feet it should perform very well.

Thanks.

Harvey, WA2AAE

2668. Re: [hex-beam] SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-23 17:02:44 UTC
From: Mike Van Winkle
Topic: 2667 Message: 2668

Harvey,
Pruning would be ill advised. Add wire if its best swr at the high end of the band...Also you can get the amount to add by doing a simple ratio equation of the current resonant frequency divided by the length equals the desired resonant frequency divided by the unknown length...Pretty simple huh...First find out where the antenna is resonantor 1.1 to 1 swr...then measure the actual length...then plug in your numbers and hello ther is the right lenght!...You will also modify the reflector element to 5% more than the driven length...I know some people hate math but this is a lot easier than up and downing that antenna.....Remember to lower resonant frequency an antenna must (at least appear to) be longer not shorter!...Have fun and be careful! 73 Mike KC4JMH

--- wa2aae <wa2aae@...> wrote:

> I modified my 5 band Hex (could not get the SWR down
> on some bands) for
> 20/17/15M with the dimensions called out in a DL7IO
> presentation. The
> SWR on 20 and 17M is pretty flat at 1.5, but the 15M
> SWR is very high
> looking better at the high end of the band. Before I
> lower the antenna
> to tune 15M, I'm wondering how much I should try to
> prune the elements
> (1 or 2 inches?).
>
> The Hex at 15 feet performs equally to my inverted V
> on top of the
> house. This is a good indication that when I mount
> the Hex in its final
> position at 28 feet it should perform very well.
>
> Thanks.
>
> Harvey, WA2AAE
>
>
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>

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2669. Re: [hex-beam] 6 meter height

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-23 17:05:20 UTC
From: Mike Van Winkle
Topic: 2666 Message: 2669

Or just build it and put it up as high as you can with
as good a feedline as you can find and have fun
figuring out how good it works...HI HI!

--- Mark Oswood <oswoodm@...> wrote:

> You might also want to think about the optimum
> height
> for a 6 meter beam. Higher is better for line of
> sight.
>
> However, if you are thinking about propogation at
> longer distances (aurora, E-skip, etc), a 2el 6
> meter
> beam at 73 feet will result in multiple elevation
> lobes with nulls at relatively low take-off angles
> (approx 8 and 15 deg.) You can model this with the
> HFTA software from the ARRL antenna book. This
> topic
> was also covered in a recent edition of QST in the
> VHF
> column.
>
> 73,
> Mark KI0DI
>
> > Message: 1
> > Date: Wed, 21 Sep 2005 23:37:28 -0000
> > From: "Ken Allen" <kb8ke@...>
> > Subject: 6 meter hex-beam
> >
> > I'm new to the group. I'm considering adding a 6M
> > HB to my existing
> > antenna stack. I have a TH6 and long beams for 2M
> &
> > 440. I would
> > like to add the 6M HB to the top of the mast, at
> 73
> > ft. This would be
> > about 3 ft above the 2M beam. Would there be any
> > problem with that
> > arrangement? Is the 6M HB sensitive to height
> above
> > ground like the
> > HX-5Bi is?

> >
> > Tnx for any opinions,
> > Ken, KB8KE
> >
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> ----------
> Mark C. Oswood, MD, PhD
> oswoodm@...
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2670. How low can I mount this ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-23 15:20:13 UTC
From: Ed
Topic: 2670 Message: 2670

I live in an antenna restricted community although I have been successful with installing a Butternut Vertical and a 160-80-40 dipole I would love to have a steerable antenna with gain. This antenna seems to fill some of the goal and appears to be rather small in size. It is not as visible as a Steppir 2 element ! My question is how low can I mount this antenna and still obtain some decent performance ? I doubt that I want to try to go much higher than 20 feet ? Is that too low ? Would it be worth the expense and time ?

Comments most appreciated

Thanks W3ETC Ed

2671. Re: [hex-beam] How low can I mount this ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-23 22:23:39 UTC
From: Jason Hissong
Topic: 2670 Message: 2671

Ed,

I used it at 9 feet and it worked pretty well! However, getting the antenna up as high as you can get it definately helps. I think a steerable antenna at 20 feet is better than a non steerable antenna at all. You get gain and side and back rejection which is a plus. I think there are guys here that have their Hexbeams mounted on their single story houses. Hopefully they will speak up.

My Hexbeam is at 32' and it really sings. It would probably do somewhat better at 40' to 50', but the extra money and pain to get it up that high was not worth it.

But a Hex at 20 feet should still work ok. It is still better than a dipole up that high!!

Jason Hissong
N8XE

Ed wrote:

>I live in an antenna restricted community although I have been
>successful with installing a Butternut Vertical and a 160-80-40
>dipole I would love to have a steerable antenna with gain. This
>antenna seems to fill some of the goal and appears to be rather small
>in size. It is not as visible as a Steppir 2 element ! My question
>is how low can I mount this antenna and still obtain some decent
>performance ? I doubt that I want to try to go much higher than 20
>feet ? Is that too low ? Would it be worth the expense and time ?
>
>Comments most appreciated
>
>Thanks W3ETC Ed
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http://www.undermidnight.com - astronomy and astrophotography
http://www.n8xe.com - ham radio
http://www.jasonhissong.com - electronic music composition

2672. Re: [hex-beam] How low can I mount this ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-24 01:08:04 UTC
From: bur52@aol.com
Topic: 2670 Message: 2672

Hello
I have a five bander on a 40 foot mast. It is bolted, and bracketed to the rear of my QTH. The brackets are about 3.5 feet apart, and go uo to the 18 foot mark....after that I have it guyed at two level between The beam is swung by a channel master , TV rotor. The controller is a neat little digital unit thatalso has a remote...works great. The antenna is not a a full size tribander , but works very very well for the foot print it uses.And it does not look as menacing to the neighbors. I think that feel it is a large sattelite dish????
good luck
JohnB
KB3LXY

[Non-text portions of this message have been removed]

2673. Re: How low can I mount this ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-24 12:51:48 UTC
From: Colin
Topic: 2670 Message: 2673

Hi Ed
I think you`ll do fine at 20ft if that`s all the height you can manage.
My hex is on an 8ft pole in the garden for now and it works pretty well
considering.

73
Colin M3XBM

--- In hex-beam@yahoogroups.com, "Ed" <w3etc@y...> wrote:
> I live in an antenna restricted community although I have been
> successful with installing a Butternut Vertical and a 160-80-40
> dipole I would love to have a steerable antenna with gain. This
> antenna seems to fill some of the goal and appears to be rather small
> in size. It is not as visible as a Steppir 2 element ! My question
> is how low can I mount this antenna and still obtain some decent
> performance ? I doubt that I want to try to go much higher than 20
> feet ? Is that too low ? Would it be worth the expense and time ?
>
> Comments most appreciated
>
> Thanks W3ETC Ed

2674. Re: [hex-beam] SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-24 18:34:43 UTC
From: Harvey Mandell
Topic: 2667 Message: 2674

I spent today trying everything 40+ years of HAM radio has taught me. I tried lengthening/shorting the driven and reflector elements, and adjusting the tip spacing. Nothing seems to have any real effect on the 15M swr, it stays around 3:1. 20 and 17M constantly show a good swr. My noise bridge shows that the antenna length is correct, but the impedance presented is very low (around 10 ohms). My MFJ antenna analyzer also shows a very low impedance around 21 MHz also.

The only thing I can think of that I have not done is to change the feedline. Since things work on 20 and 17M I don't see why this should be a problem but who knows.

This whole thing is very strange and any suggestions are appreciated.

Harvey, WA2AAE

--- Mike Van Winkle <janmike2001@...> wrote:

> Harvey,
> Pruning would be ill advised. Add wire if its best
> swr
> at the high end of the band...Also you can get the
> amount to add by doing a simple ratio equation of
> the
> current resonant frequency divided by the length
> equals the desired resonant frequency divided by the
> unknown length...Pretty simple huh...First find out
> where the antenna is resonantor 1.1 to 1 swr...then
> measure the actual length...then plug in your
> numbers
> and hello ther is the right lenght!...You will also
> modify the reflector element to 5% more than the
> driven length...I know some people hate math but
> this
> is a lot easier than up and downing that
> antenna.....Remember to lower resonant frequency an
> antenna must (at least appear to) be longer not
> shorter!...Have fun and be careful! 73 Mike KC4JMH
>
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2675. Re: [hex-beam] SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-24 19:44:03 UTC
From: Darren GØTSM
Topic: 2667 Message: 2675

Can you describe the method that you are using to feed all the elements
and if you are feeding from the top or the bottom?.

Darren

Harvey Mandell wrote:
> I spent today trying everything 40+ years of HAM radio
> has taught me. I tried lengthening/shorting the driven
> and reflector elements, and adjusting the tip spacing.
> Nothing seems to have any real effect on the 15M swr,
> it stays around 3:1. 20 and 17M constantly show a good
> swr. My noise bridge shows that the antenna length is
> correct, but the impedance presented is very low
> (around 10 ohms). My MFJ antenna analyzer also shows a
> very low impedance around 21 MHz also.
>
> The only thing I can think of that I have not done is
> to change the feedline. Since things work on 20 and
> 17M I don't see why this should be a problem but who
> knows.
>
> This whole thing is very strange and any suggestions
> are appreciated.
>
> Harvey, WA2AAE
>
> --- Mike Van Winkle <janmike2001@...> wrote:
>
> > Harvey,
> > Pruning would be ill advised. Add wire if its best
> > swr
> > at the high end of the band...Also you can get the
> > amount to add by doing a simple ratio equation of
> > the
> > current resonant frequency divided by the length
> > equals the desired resonant frequency divided by the
> > unknown length...Pretty simple huh...First find out
> > where the antenna is resonantor 1.1 to 1 swr...then
> > measure the actual length...then plug in your
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> > and hello ther is the right lenght!...You will also
> > modify the reflector element to 5% more than the
> > driven length...I know some people hate math but
> > this
> > is a lot easier than up and downing that

> > antenna.....Remember to lower resonant frequency an
> > antenna must (at least appear to) be longer not
> > shorter!...Have fun and be careful! 73 Mike KC4JMH
> >
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_KQetOHx7HeurUQ>
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es+and+crafts&w4=Ham+radio+antenna&w5=Ham+radio&w6=Ham+radio+sales&c=6&s=118&.sig=CW6N_b7_
OLM_rjgXsh8S1Q>
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3=Hobbies+and+crafts&w4=Ham+radio+antenna&w5=Ham+radio&w6=Ham+radio+sales&c=6&s=118&.sig=x
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Fe7TZj4Bp2kAht0enlxQ>
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+and+crafts&w4=Ham+radio+antenna&w5=Ham+radio&w6=Ham+radio+sales&c=6&s=118&.sig=XeFcbA_6SD
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> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio+sales&w1=Ferrite+bead&w2=Craft+hobby&w3=H
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x14T9QHraKHfFVhCSQ>
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>

2676. Re: [hex-beam] Re: How low can I mount this ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-24 22:20:24 UTC
From: bur52@aol.com
Topic: 2670 Message: 2676

I agree..
I had mine at 25 feet or so. I worked Europe, and Argentina the first time I fired up the rig. At 40 feet is puts out a stronger DX signal...but seems to not quite as strong with stateside stations. Traffie tells me that he has some buyers that have worked dx with the antenna mounted a "bucket"????
regards
JohnB

[Non-text portions of this message have been removed]

2677. Re: [hex-beam] SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-24 18:49:02 UTC
From: Thomas Snare Knutsen
Topic: 2667 Message: 2677

Try to rotate the feeder to the antenna 180 degrees.

73 de Thomas
----- Original Message -----
From: Harvey Mandell
To: hex-beam@yahoogroups.com
Sent: Saturday, September 24, 2005 8:34 PM
Subject: Re: [hex-beam] SWR

I spent today trying everything 40+ years of HAM radio
has taught me. I tried lengthening/shorting the driven
and reflector elements, and adjusting the tip spacing.
Nothing seems to have any real effect on the 15M swr,
it stays around 3:1. 20 and 17M constantly show a good
swr. My noise bridge shows that the antenna length is
correct, but the impedance presented is very low
(around 10 ohms). My MFJ antenna analyzer also shows a
very low impedance around 21 MHz also.

The only thing I can think of that I have not done is
to change the feedline. Since things work on 20 and
17M I don't see why this should be a problem but who
knows.

This whole thing is very strange and any suggestions
are appreciated.

Harvey, WA2AAE

--- Mike Van Winkle <janmike2001@...> wrote:

> Harvey,
> Pruning would be ill advised. Add wire if its best
> swr
> at the high end of the band...Also you can get the
> amount to add by doing a simple ratio equation of
> the
> current resonant frequency divided by the length
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> unknown length...Pretty simple huh...First find out
> where the antenna is resonantor 1.1 to 1 swr...then
> measure the actual length...then plug in your
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> and hello ther is the right lenght!...You will also
> modify the reflector element to 5% more than the
> driven length...I know some people hate math but
> this

> is a lot easier than up and downing that
> antenna.....Remember to lower resonant frequency an
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[Non-text portions of this message have been removed]

2678. Re: [hex-beam] SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-24 22:38:18 UTC
From: bur52@aol.com
Topic: 2667 Message: 2678

Length of feed line? what are you using? RG8..or Rg8X...or 58U . I have had
some 15 meter issues with the RG/58u
JohnB

[Non-text portions of this message have been removed]

2679. Re: [hex-beam] SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-25 06:02:36 UTC
From: James Balls
Topic: 2667 Message: 2679

Hey,

I spent 4 days trying to get my 15m SWR to play, finally found it to be
the RG213 I was using, I swapped it out and hey presto, all was OK after
a little pruning.

Swap out your coax run with another to see if the problem is still the same.

Jim M0CKE

Harvey Mandell wrote:

>I spent today trying everything 40+ years of HAM radio
>has taught me. I tried lengthening/shorting the driven
>and reflector elements, and adjusting the tip spacing.
>Nothing seems to have any real effect on the 15M swr,
>it stays around 3:1. 20 and 17M constantly show a good
>swr. My noise bridge shows that the antenna length is
>correct, but the impedance presented is very low
>(around 10 ohms). My MFJ antenna analyzer also shows a
>very low impedance around 21 MHz also.
>
>The only thing I can think of that I have not done is
>to change the feedline. Since things work on 20 and
>17M I don't see why this should be a problem but who
>knows.
>
>This whole thing is very strange and any suggestions
>are appreciated.
>
>Harvey, WA2AAE
>
>--- Mike Van Winkle <janmike2001@...> wrote:
>
>
>
>>Harvey,
>>Pruning would be ill advised. Add wire if its best
>>swr
>>at the high end of the band...Also you can get the
>>amount to add by doing a simple ratio equation of
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>>current resonant frequency divided by the length
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>>where the antenna is resonantor 1.1 to 1 swr...then

>>measure the actual length...then plug in your
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>>and hello ther is the right lenght!...You will also
>>modify the reflector element to 5% more than the
>>driven length...I know some people hate math but
>>this
>>is a lot easier than up and downing that
>>antenna.....Remember to lower resonant frequency an
>>antenna must (at least appear to) be longer not
>>shorter!...Have fun and be careful! 73 Mike KC4JMH
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2680. Re: [hex-beam] SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-25 12:06:40 UTC
From: Harvey Mandell
Topic: 2667 Message: 2680

I'm glad to see that I'm not the only one who has run into this problem on 15m. I'm using about 10ft of RG-58 from the 20M feed point (top feed) with a ferrite balun (current type) between this short feedline and the feedline to the house (RG-8X). I will make up a new short feedline from RG-8X, as short as possible, to replace the RG-58 and hopefully this will resolve my problem. I'm using lengths of 14 GA. wire, held together with tie-wraps, as the transmission line between elements.

Thanks to all.

Harvey, WA2AAE

--- James Balls <jim@...> wrote:

> Hey,
>
> I spent 4 days trying to get my 15m SWR to play,
> finally found it to be
> the RG213 I was using, I swapped it out and hey
> presto, all was OK after
> a little pruning.
>
> Swap out your coax run with another to see if the
> problem is still the same.
>
> Jim M0CKE
>

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2681. Re: [hex-beam] SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-25 12:08:59 UTC
From: bur52@aol.com
Topic: 2667 Message: 2681

I think you may be on the right track.
JohnB

[Non-text portions of this message have been removed]

2682. Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-25 14:49:12 UTC
From: Colin
Topic: 2667 Message: 2682

Hi Harvey,
I used Holger`s measurements for a 5 bander,the only differences were
#14 flexweave and i added 100mm foldback at the end of each half
element (just in case).
I used the same #14 flexweave wire along with the screen from some
RG213 (slid over the top) to create nice thick copper feedlines
around 4mm dia.
Everything tuned with a hitch.
Maybe the reason for your original 5 bander not tuning is still
present in the new 3 band version you have now?
Are you running the coax down the post between the cold driver leg
and reflector?

It`s likely something simple thats causing the problem :)

73
Colin M3XBM

--- In hex-beam@yahoogroups.com, Harvey Mandell <wa2aae@y...> wrote:
> I'm glad to see that I'm not the only one who has run
> into this problem on 15m. I'm using about 10ft of
> RG-58 from the 20M feed point (top feed) with a
> ferrite balun (current type) between this short
> feedline and the feedline to the house (RG-8X). I will
> make up a new short feedline from RG-8X, as short as
> possible, to replace the RG-58 and hopefully this will
> resolve my problem. I'm using lengths of 14 GA. wire,
> held together with tie-wraps, as the transmission line
> between elements.
>
> Thanks to all.
>
> Harvey, WA2AAE
>
> --- James Balls <jim@m...> wrote:
>
> > Hey,
> >
> > I spent 4 days trying to get my 15m SWR to play,
> > finally found it to be
> > the RG213 I was using, I swapped it out and hey
> > presto, all was OK after
> > a little pruning.
> >
> > Swap out your coax run with another to see if the
> > problem is still the same.

> >
> > Jim M0CKE
> >
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

2683. Re: [hex-beam] Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-25 19:34:38 UTC
From: Harvey Mandell
Topic: 2667 Message: 2683

Hi Colin,

I tried the new RG-8X feedline with no noticeable change in the 15M performance. The feedline is running down the side of the center support between the driven element and reflector connections. My next try will be to disconnect the top feed and try feeding the antenna from the 15M driven element connection. This should prove whether the "transmission line" between elements is the problem. For now I think I need a glass or two of wine to relax. Hi.

Harvey, WA2AAE

--- Colin <djcol1@...> wrote:

> Hi Harvey,
> I used Holger`s measurements for a 5 bander,the only
> differences were
> #14 flexweave and i added 100mm foldback at the end
> of each half
> element (just in case).
> I used the same #14 flexweave wire along with the
> screen from some
> RG213 (slid over the top) to create nice thick
> copper feedlines
> around 4mm dia.
> Everything tuned with a hitch.
> Maybe the reason for your original 5 bander not
> tuning is still
> present in the new 3 band version you have now?
> Are you running the coax down the post between the
> cold driver leg
> and reflector?
>
> It`s likely something simple thats causing the
> problem :)
>
> 73
> Colin M3XBM

_____
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http://mail.yahoo.com

2684. Re: [hex-beam] Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-25 22:08:50 UTC
From: Dave
Topic: 2667 Message: 2684

FWIW, I'm in the middle of building a 20-15-10 hex and am also having a lot of feed/SWR problems. I tried parallel wires (about 1/2" apart) and couldn't get all 3 bands. If I fed at the top, 10m wasn't good. From the bottom, 20m was bad. Any of the bands fed directly without inter-band connections was fine.

Currently I have it with short coax lines between the 3 sets of wires, and the coax feed going to the 15m band.

- Dave
W6OT

Harvey Mandell wrote:

>Hi Colin,
>
>I tried the new RG-8X feedline with no noticeable
>change in the 15M performance. The feedline is running
>down the side of the center support between the driven
>element and reflector connections. My next try will be
>to disconnect the top feed and try feeding the antenna
>from the 15M driven element connection. This should
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>is the problem. For now I think I need a glass or two
>of wine to relax. Hi.
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>--- Colin <djcol1@...> wrote:
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>>I used the same #14 flexweave wire along with the
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>>RG213 (slid over the top) to create nice thick
>>copper feedlines
>>around 4mm dia.
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>>Maybe the reason for your original 5 bander not
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>>present in the new 3 band version you have now?
>>Are you running the coax down the post between the
>>cold driver leg
>>and reflector?
>>
>>It`s likely something simple thats causing the
>>problem :)
>>
>>73
>>Colin M3XBM
>>
>>
>
>
>

2685. Re: [hex-beam] Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-26 07:29:43 UTC
From: James Balls
Topic: 2667 Message: 2685

Dave,

Why did you use the feed lines 1/2" apart and what king of wire did you use?

For a low impedance feed, which is what the Hex needs, the parallel feed lines should be reasonably heavy gauge, I think mine are multi strand and about 1/4" diameter with a thin PVC covering, these are tied together all the way down and the feed "rings" are soldered on at 90 right angles to the feed lines, this is how I perceive a low impedance feed should be built.

Take a look at the picture in the groups photo files for the coax feed to see the feed lines

Regards,

Jim M0CKE

Dave wrote:

>FWIW, I'm in the middle of building a 20-15-10 hex and am also having a
>lot of feed/SWR problems. I tried parallel wires (about 1/2" apart)
>and couldn't get all 3 bands. If I fed at the top, 10m wasn't good.
> From the bottom, 20m was bad. Any of the bands fed directly without
>inter-band connections was fine.
>
>Currently I have it with short coax lines between the 3 sets of wires,
>and the coax feed going to the 15m band.
>
> - Dave
> W6OT
>
>
>Harvey Mandell wrote:
>
>
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>>Hi Colin,
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>>I tried the new RG-8X feedline with no noticeable
>>change in the 15M performance. The feedline is running
>>down the side of the center support between the driven
>>element and reflector connections. My next try will be
>>to disconnect the top feed and try feeding the antenna
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>>from the 15M driven element connection. This should

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>>prove whether the "transmission line" between elements
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>Yahoo! Groups Links
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2686. Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-26 14:51:51 UTC
From: Colin
Topic: 2667 Message: 2686

Hi James
I think the wire size is important for the feedline.
I`m not sure about the spacing though as mine aren`t tied closely
together and work fine.

Having said that, my 6mm brass bolt heads are quite close together
inside the 40mm dia post..the 4mm dia uninsulated copper lines are
soldered (aka blowlamp HI) directly down the center line of bolt
heads :)

The thing which stands out for me is the non standard combination of
bands 10/15/20 and 20/17/15 which may be causing the problem.

Initially i`d check and recheck the lengths of the elements.. in case
some are in the wrong place or cut incorrectly.

In Harvey`s case i think the thin #14 wire feedlines are favourite..
thicker wires (4mm) and a return to 5 bands may be the solution.

For Dave, adding 12m and 17m elements could be the easiest way to
go :)
In either case i wish you both the best of luck.

I`m building another 5 bander soon for portable use, so we`ll see if
i`m as fortunate with the tuning as i was with the last one.

73
Colin M3XBM

--- In hex-beam@yahoogroups.com, James Balls <jim@m...> wrote:
> Dave,
>
> Why did you use the feed lines 1/2" apart and what king of wire did
you use?
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> For a low impedance feed, which is what the Hex needs, the parallel
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> lines should be reasonably heavy gauge, I think mine are multi
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> and about 1/4" diameter with a thin PVC covering, these are tied
> together all the way down and the feed "rings" are soldered on at
90
> right angles to the feed lines, this is how I perceive a low
impedance
> feed should be built.
>
> Take a look at the picture in the groups photo files for the coax

feed
> to see the feed lines
>
> Regards,
>
> Jim M0CKE

2687. Re: [hex-beam] Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-26 17:41:58 UTC
From: Dave
Topic: 2667 Message: 2687

I was using #12 solid for the feed, with a harness made with a straight run of wire with ring terminals off it for each band. I picked that because that's what I had on hand. I kept them 1/2 apart since they weren't insulated.

I'll see if I can find some heavy stranded insulated wire and try that with them tied close together. The current setup actually works fine on all 3 bands, however, so I'm working first on getting some frozen bolts out of my used rotor and putting a mast up. I hope to have this going by the California QSO Party this weekend.

- Dave
W6OT
In Beautiful yet Flat Yolo County

James Balls wrote:

>Dave,
>
>Why did you use the feed lines 1/2" apart and what king of wire did you use?
>
>For a low impedance feed, which is what the Hex needs, the parallel feed
>lines should be reasonably heavy gauge, I think mine are multi strand
>and about 1/4" diameter with a thin PVC covering, these are tied
>together all the way down and the feed "rings" are soldered on at 90
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>Take a look at the picture in the groups photo files for the coax feed
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>Regards,
>
>Jim M0CKE
>
>Dave wrote:
>
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>>lot of feed/SWR problems. I tried parallel wires (about 1/2" apart)
>>and couldn't get all 3 bands. If I fed at the top, 10m wasn't good.
>>From the bottom, 20m was bad. Any of the bands fed directly without
>>inter-band connections was fine.
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>>Currently I have it with short coax lines between the 3 sets of wires,

>>and the coax feed going to the 15m band.
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>>W6OT
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>>>>#14 flexweave and i added 100mm foldback at the end
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>>>>I used the same #14 flexweave wire along with the
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>>>>present in the new 3 band version you have now?
>>>>Are you running the coax down the post between the
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>>>>and reflector?
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>>>>It`s likely something simple thats causing the
>>>>problem :)
>>>>
>>>>73
>>>>Colin M3XBM
>>>>
>>>>
>>>>
>>>>

2688. Re: [hex-beam] Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-26 18:21:53 UTC
From: Darren GØTSM
Topic: 2667 Message: 2688

I'm on my 4th and hopefully final version here, from my experience you end up with better SWR curves if you use 10mm sq wires zip tied together and the wire elements soldered straight to the feedlines.
On version 3 I made up the two feedlines seperately, I insulated the points where the elements are soldered with self amalgamating tape then zip tied the two lines together.
This gave nice smooth SWR curves on the 5 bands with swr at 1.75:1 (approx) at the bottom of each band.
My MK4 version uses 10mm wire with crimped connections on brass terminals and mounted inside the 50mm centre post, using the same element lengths the SWR curves are all over the place. The problem here is that the feedline widens at the terminals and changes the impedance of the line at this point.

For info, after building version 4 I modded the centre post so the feed studs point to the rear of the antenna. Imagine on a great circle map zero degrees is the front of the antenna, my feed point studs come out at 135 and 225 degrees,this does away with the need for a 90deg angled crimp on the stud. Reversing this post didnt alter the SWR at all.

Incidently heavy duty 2.5mm speaker cable is also about 75-ohms, but is usually quite expensive for long runs, I was toying with the idea of running 75-ohm twin back to the shack to reduce the feeder loses here as the coax runs are about 60M long here.

Darren

Colin wrote:
> Hi James
> I think the wire size is important for the feedline.
> I`m not sure about the spacing though as mine aren`t tied closely
> together and work fine.
>
> Having said that, my 6mm brass bolt heads are quite close together
> inside the 40mm dia post..the 4mm dia uninsulated copper lines are
> soldered (aka blowlamp HI) directly down the center line of bolt
> heads :)
>
> The thing which stands out for me is the non standard combination of
> bands 10/15/20 and 20/17/15 which may be causing the problem.
>
> Initially i`d check and recheck the lengths of the elements.. in case
> some are in the wrong place or cut incorrectly.
>
> In Harvey`s case i think the thin #14 wire feedlines are favourite..
> thicker wires (4mm) and a return to 5 bands may be the solution.

>
> For Dave, adding 12m and 17m elements could be the easiest way to
> go :)
> In either case i wish you both the best of luck.
>
> I`m building another 5 bander soon for portable use, so we`ll see if
> i`m as fortunate with the tuning as i was with the last one.
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> 73
> Colin M3XBM
>
> --- In hex-beam@yahoogroups.com, James Balls <jim@m...> wrote:
> > Dave,
> >
> > Why did you use the feed lines 1/2" apart and what king of wire did
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> feed
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> > and about 1/4" diameter with a thin PVC covering, these are tied
> > together all the way down and the feed "rings" are soldered on at
> 90
> > right angles to the feed lines, this is how I perceive a low
> impedance
> > feed should be built.
> >
> > Take a look at the picture in the groups photo files for the coax
> feed
> > to see the feed lines
> >
> > Regards,
> >
> > Jim M0CKE
>
>
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>
>
> SPONSORED LINKS
> Ferrite bead
> <http://groups.yahoo.com/gads?t=ms&k=Ferrite+bead&w1=Ferrite+bead&w2=Craft+hobby&w3=Hobb
ies+and+crafts&w4=Ham+radio+antenna&w5=Ham+radio&w6=Ham+radio+sales&c=6&s=118&.sig=WYjVjIG
_KQetOHx7HeurUQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ferrite+bead&w2=Craft+hobby&w3=Hobbi
es+and+crafts&w4=Ham+radio+antenna&w5=Ham+radio&w6=Ham+radio+sales&c=6&s=118&.sig=CW6N_b7_
OLM_rjgXsh8S1Q>
> Hobbies and crafts

> <http://groups.yahoo.com/gads?t=ms&k=Hobbies+and+crafts&w1=Ferrite+bead&w2=Craft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio+antenna&w5=Ham+radio&w6=Ham+radio+sales&c=6&s=118&.sig=x1ZyL0dZvaFGFAlXucfUJg>
>
> Ham radio antenna
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio+antenna&w1=Ferrite+bead&w2=Craft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio+antenna&w5=Ham+radio&w6=Ham+radio+sales&c=6&s=118&.sig=XOFe7TZj4Bp2kAht0enlxQ>
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ferrite+bead&w2=Craft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio+antenna&w5=Ham+radio&w6=Ham+radio+sales&c=6&s=118&.sig=XeFcbA_6SD_JPOiH9zwxwg>
> Ham radio sales
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio+sales&w1=Ferrite+bead&w2=Craft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio+antenna&w5=Ham+radio&w6=Ham+radio+sales&c=6&s=118&.sig=Q6-yx14T9QHraKHfFVhCSQ>
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> ---
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> * Visit your group "hex-beam
> <http://groups.yahoo.com/group/hex-beam>" on the web.
>
> * To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
> <mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
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>
> ---
>

2689. Re: [hex-beam] Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-26 20:25:30 UTC
From: Harvey Mandell
Topic: 2667 Message: 2689

Well Colin, I tried adding parallel lengths of
insulated braid from RG-8 coax, held together with
tie-wraps, to see if the feedline was the cause of my
problems. Really no difference from the parallel 14AWG
by itself. The weather has turned bad so I can not try
moving the feed point to the 15M element today. At
this point this is the only thing left to try.

Harvey, WA2AAE

--- Colin <djcol1@...> wrote:

> Hi James
> I think the wire size is important for the feedline.
> I`m not sure about the spacing though as mine aren`t
> tied closely
> together and work fine.
>
> Having said that, my 6mm brass bolt heads are quite
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> 73
> Colin M3XBM
>

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http://mail.yahoo.com

2690. Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-26 20:54:28 UTC
From: dl7io
Topic: 2667 Message: 2690

Hello Harvey,
sorry for leaving you alone but business comes first and because of
that I have not been here frequently.
I would like to find out what the problem might be but please help me
with some info.
What dimensions for the elements did you use?
Where did you feed the antenna (Top or bottom).
The feeding line is a low impedance line? This means big wire
diameter and wires as close together as you can!

As more distance you have between the wire as higher will be the line
impedance.
Again give me wire diameter (with any unit as I'm not used to #xx
wire), length and details of the feeding system.
I have calculated/published a 20/17/15m beam with feeding at the 15m
element. Is that your base?
73 Holger, DL7IO

--- In hex-beam@yahoogroups.com, Harvey Mandell <wa2aae@y...> wrote:
> Hi Colin,
>
> I tried the new RG-8X feedline with no noticeable
> change in the 15M performance. The feedline is running
> down the side of the center support between the driven
> element and reflector connections. My next try will be
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> prove whether the "transmission line" between elements
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> Harvey, WA2AAE
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> > Hi Harvey,
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> > Are you running the coax down the post between the
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> >
> > It`s likely something simple thats causing the
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> >
> > 73
> > Colin M3XBM
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

2691. The importance of the Feedlines ... !

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-27 06:10:32 UTC
From: James Balls
Topic: 2667 Message: 2691

Hi all,

Most who have problems with the home brew beam seem to be overlooking the importance of the low impedance feed lines.

Everyone goes to the trouble of building the beam with correct element lengths and spacings but then compromises on the feed lines and feed coax / choke, these are just as important as the element lengths / spacings.

So you need to make sure you have good heavy gauge cable for the feed lines, if your unsure, then take a look in your local car stereo shop (or ICE shop) for the heavy gauge power cables they sell, maybe you can buy a few meters (or yards) of this type of cable off the roll, it makes for good low impedance feed lines.

Make sure you get the feed take off spacings correct, and once you have made the feed harness make sure the parallel lines are tied together with UV stable cable ties at regular intervals.

On the coax feed, use good quality coax, preferably a new run of RG213 which has been proven to be ok and also that it's not resonant on any of the bands.

Also don't forget the importance of using a coax choke on the feed line just below the base of the Hex, I personally use 8 Amidon FB-77-1024 Ferrite Beads which are held in place with heat shrink to the coax.

All the above works great on my home made hex, I have good SWR curves on all bands and it performs really well, I often get compliments to the strength of my signals running 400w and my PROII, the coax run I use is about 40 Metres (160ft).

I hope this helps those having problems, or just looking to build this fantastic project antenna.

Just remember element dimensions are critical, so are the low impedance feed lines and the coax feed, get them all correct and you will have a performer!

Regards,

Jim M0CKE

2692. Re: [hex-beam] Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-27 11:34:39 UTC
From: Harvey Mandell
Topic: 2667 Message: 2692

Good Morning Holger,

Thanks for your response. The dimensions I'm using came from a presentation I got off of your web site (in German so I hope I picked up the key points); 20M-5.5/5.69M, 17M-4.28/4.41M, and 15M-3.74/3.78M (driven/reflector). The key may be that this version of the antenna was to be fed at the 15M point which I don't believe was mentioned in the presentation, mine is fed at the 20M point. The initial transmission line was 14 GA wire, about 2mm diameter. I then added the coax braid bundled tightly together, about 0.3 inch or 9mm diameter, in parallel with the existing transmission line wire with little or no effect.

I'll try moving the feed point today, weather permitting. I started with the 5 band version, which I also has some problems with, but since I don't operate some of those bands the three band version seemed perfect for me.

Thanks for your efforts and help Holger. Now that I am retired after 39 years in electrical engineering I have more time to play.

Harvey, WA2AAE

--- dl7io <dl7io@...> wrote:

> Hello Harvey,
> sorry for leaving you alone but business comes first
> and because of
> that I have not been here frequently.
> I would like to find out what the problem might be
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> with some info.
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> The feeding line is a low impedance line? This means
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> diameter and wires as close together as you can!
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> As more distance you have between the wire as higher
> will be the line
> impedance.
> Again give me wire diameter (with any unit as I'm

> not used to #xx
> wire), length and details of the feeding system.
> I have calculated/published a 20/17/15m beam with
> feeding at the 15m
> element. Is that your base?
> 73 Holger, DL7IO
>

_____
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2693. Re: [hex-beam] Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-27 11:51:46 UTC
From: Harvey Mandell
Topic: 2667 Message: 2693

One other question Holger. If I want to feed the
20/17/15M Hex from the top (20M point), is it a matter
of only changing the length of the 15M element? 20 and
17 are working fine with the present top feed
configuration.

Thanks again.

Harvey, WA2AAE

--- dl7io <dl7io@...> wrote:

> Hello Harvey,
> sorry for leaving you alone but business comes first
> and because of
> that I have not been here frequently.
> I would like to find out what the problem might be
> but please help me
> with some info.
> What dimensions for the elements did you use?
> Where did you feed the antenna (Top or bottom).
> The feeding line is a low impedance line? This means
> big wire
> diameter and wires as close together as you can!
>
> As more distance you have between the wire as higher
> will be the line
> impedance.
> Again give me wire diameter (with any unit as I'm
> not used to #xx
> wire), length and details of the feeding system.
> I have calculated/published a 20/17/15m beam with
> feeding at the 15m
> element. Is that your base?
> 73 Holger, DL7IO

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2694. Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-28 12:06:52 UTC
From: dl7io
Topic: 2667 Message: 2694

Harvey,
the design you used is for bottom feeding as most of the designs I published. I cannot see any advantage for the top feeding. It only causes problems, questions and more coax.
But the radiator should be 4.4m instead of 4.5m.

Yes there is a matter of changing the feeding point.
The low impedance line from the feeding point to the active elements is part of the radiator for every band. It is not radiating itself but has influence on the element lengths. The electrical influence can be seen if you compare the relation between driven element lengths and reflector element length. You will find out that as more far we are from the feeding point as more difference we have (around 1-4% for 20m+ versions and up to 7% for the 40m+designs).

Hopefully everything is working now and you will be able to catch the K7C with your new antenna.
73 Holger

--- In hex-beam@yahoogroups.com, Harvey Mandell <wa2aae@y...> wrote:
> One other question Holger. If I want to feed the
> 20/17/15M Hex from the top (20M point), is it a matter
> of only changing the length of the 15M element? 20 and
> 17 are working fine with the present top feed
> configuration.
>
> Thanks again.
>
> Harvey, WA2AAE
>
> --- dl7io <dl7io@q...> wrote:
>
> > Hello Harvey,
> > sorry for leaving you alone but business comes first
> > and because of
> > that I have not been here frequently.
> > I would like to find out what the problem might be
> > but please help me
> > with some info.
> > What dimensions for the elements did you use?
> > Where did you feed the antenna (Top or bottom).
> > The feeding line is a low impedance line? This means
> > big wire
> > diameter and wires as close together as you can!
> >
> > As more distance you have between the wire as higher

> > will be the line
> > impedance.
> > Again give me wire diameter (with any unit as I'm
> > not used to #xx
> > wire), length and details of the feeding system.
> > I have calculated/published a 20/17/15m beam with
> > feeding at the 15m
> > element. Is that your base?
> > 73 Holger, DL7IO
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

2695. K7C

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-28 13:26:27 UTC
From: James Balls
Topic: 2667 Message: 2695

All,

Worked K7C this morning on 20m using the Hex beam 10m and 400w, He heard me after about 5 calls, I couldn't hear him on the 130' doublet or GAP titan but he was 5/5 on the hex with QSB, it still amazes me how low the noise is on the Hex and how well it performs.

Jim M0CKE

2696. Hello to all

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-27 12:45:52 UTC
From: thestairway
Topic: 930 Message: 2696

Hello to all in this group,

Today I found this group, searching for interesting antenna's to build for the upcoming Jamboree On The Air (14-16 october 2005).
I have never heard before about the hex beam, but it seems a very fun antenna to build and use. Especially with the help of the Scouts it must be fun and good practice to build.
I hope to find enough information in this group to succeed in building this antenna for the Jamboree and maybe more antenna's afterwards.

Kind regards from The Netherlands,
Han.

2697. Re: [hex-beam] Hello to all

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-28 16:46:32 UTC
From: Harold Burton
Topic: 930 Message: 2697

----- Original Message -----
From: "thestairway" <thestairway@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, September 27, 2005 7:45 AM
Subject: [hex-beam] Hello to all

> Hello to all in this group,
>
> Today I found this group, searching for interesting antenna's to build
> for the upcoming Jamboree On The Air (14-16 october 2005).
> I have never heard before about the hex beam, but it seems a very fun
> antenna to build and use. Especially with the help of the Scouts it
> must be fun and good practice to build.
> I hope to find enough information in this group to succeed in building
> this antenna for the Jamboree and maybe more antenna's afterwards.
>
> Kind regards from The Netherlands,
> Han.
>
I recently helped KD5YPF build a monoband 20 meter HexBeam using
information from W1GQL's website. We used PVC pipe for the hex radial
struts and nylon twine for the
remainder of the structure. The hub consisted of 1/2 inch plywood and 1
1/2 inch wood closet rod. This was tried as a prototype for testing with
the idea of using better structural materials if the prototype merited
it. He's had it up for a couple of weeks and is very pleased with its
performance. It's presently mounted at the top of a telescoping metal
mast at approximately 30 feet, appropriately guyed. Today we're supposed
to get winds in the 30-45 mph range. We're thinking it'll survive those
wind levels with no problems, but we'll see. KD5YPF has broken pile-ups
into Sweden with the HexBeam and his normal 100 watt output, which
pleased him immensely. I'm currently seeking locally (hopefully)
obtainable
1/2 inch fiberglass rod to build my own HexBeam. If I can come up with
that material I'll
build one of my own and mast mount it similarly.

Harold
KD5SAK

2698. Re: [hex-beam] Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-29 10:45:44 UTC
From: Harvey Mandell
Topic: 2667 Message: 2698

Holger,

I was just curious about the element length. Ill stick
to the bottom feed now that everything is working. Now
just have to clean up my work so that I can mount the
antenna in it's permanant location.

Harvey, WA2AAE

--- dl7io <dl7io@...> wrote:

> Harvey,
> the design you used is for bottom feeding as most of
> the designs I
> published. I cannot see any advantage for the top
> feeding. It only
> causes problems, questions and more coax.
> But the radiator should be 4.4m instead of 4.5m.
>
> Yes there is a matter of changing the feeding point.
>
> The low impedance line from the feeding point to the
> active elements
> is part of the radiator for every band. It is not
> radiating itself
> but has influence on the element lengths. The
> electrical influence
> can be seen if you compare the relation between
> driven element
> lengths and reflector element length. You will find
> out that as more
> far we are from the feeding point as more difference
> we have (around
> 1-4% for 20m+ versions and up to 7% for the
> 40m+designs).
>
> Hopefully everything is working now and you will be
> able to catch the
> K7C with your new antenna.
> 73 Holger
>

_____
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2699. Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-29 18:10:49 UTC
From: dl7io
Topic: 2667 Message: 2699

Harvey,
good to hear everything is working.
Can you please send me some SWR values (3-4 for every band) together
with info on height and coax length?
TNX Holger

2700. Re: [hex-beam] Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-30 11:55:23 UTC
From: Harvey Mandell
Topic: 2667 Message: 2700

I'd be glad to Holger. Right now the antenna is only about 15 feet in the air. I thought that the 15M SWR, which is good at 21MHZ but higher as I go up in frequency would improve as I raised the antenna. It did not so I need to just retune 15M slightly.Do you want the SWR values at this height or do you want to wait until I raise it into a higher location?

Harvey, WA2AAE

--- dl7io <dl7io@...> wrote:

> Harvey,
> good to hear everything is working.
> Can you please send me some SWR values (3-4 for
> every band) together
> with info on height and coax length?
> TNX Holger
>
>
>
>

_____
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2701. Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-09-30 15:13:29 UTC
From: dl7io
Topic: 2667 Message: 2701

Harvey,
the SWR should not change significant. Give me some values at this
height as well please.
73 Holger

--- In hex-beam@yahoogroups.com, Harvey Mandell <wa2aae@y...> wrote:
> I'd be glad to Holger. Right now the antenna is only
> about 15 feet in the air. I thought that the 15M SWR,
> which is good at 21MHZ but higher as I go up in
> frequency would improve as I raised the antenna. It
> did not so I need to just retune 15M slightly.Do you
> want the SWR values at this height or do you want to
> wait until I raise it into a higher location?
>
> Harvey, WA2AAE
>
> --- dl7io <dl7io@q...> wrote:
>
> > Harvey,
> > good to hear everything is working.
> > Can you please send me some SWR values (3-4 for
> > every band) together
> > with info on height and coax length?
> > TNX Holger
> >
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> _____
> Yahoo! Mail - PC Magazine Editors' Choice 2005
> http://mail.yahoo.com

2702. Re: The importance of the Feedlines ... !

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-03 07:27:19 UTC
From: Giorgio
Topic: 2667 Message: 2702

Hi !
What diameter is better for feed line cable? 3mm copper is ok ?
73 Giorgio iv3ddm

> So you need to make sure you have good heavy gauge cable for the feed
> lines, if your unsure, then take a look in your local car stereo shop
> (or ICE shop) for the heavy gauge power cables they sell, maybe you
can
> buy a few meters (or yards) of this type of cable off the roll, it
makes
> for good low impedance feed lines.
>
> Make sure you get the feed take off spacings correct, and once you
have
> made the feed harness make sure the parallel lines are tied together
> with UV stable cable ties at regular intervals.
>

2703. To DL7IO - feed point

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-03 08:15:12 UTC
From: Giorgio
Topic: 2703 Message: 2703

Hello.

I have see in your 5 bands 10-20 RefletedW-design, now You feed antenna at bottom.
I have 2 questions:

- Feed is on 10 meter or lower ?
- Lenght of elements is the same as feeding at top ?

Btw: In the past I have try to simulate h.b. with 4nec2 but no result feeding at top, ok feeding at bottom with elements lenght like lz2be model.

73 de Giorgio iv3ddm

2704. Re: To DL7IO - feed point

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-03 19:33:24 UTC
From: dl7io
Topic: 2703 Message: 2704

Hello Giorgio,
regarding the feeding line:
A high wire diameter is better as the relation between wire diameter
and wire distance gives the impedance of the line and we are looking
for a low impedance line here.

The published 5-band versions are for top feeding.

I have published designs for bottom feeding up to 4 bands (20-12m).
I have a working 5-band solution with bottom feeding and good SWR on 20
as well.

Of course the element dimensions are different from the top feeding
model.
If you have a useful simulation try it out.

73 Holger

--- In hex-beam@yahoogroups.com, "Giorgio" <giorgio.emili@l...> wrote:
> Hello.
>
> I have see in your 5 bands 10-20 RefletedW-design, now You feed
antenna
> at bottom.
> I have 2 questions:
>
> - Feed is on 10 meter or lower ?
> - Lenght of elements is the same as feeding at top ?
>
> Btw: In the past I have try to simulate h.b. with 4nec2 but no result
> feeding at top, ok feeding at bottom with elements lenght like lz2be
> model.
>
> 73 de Giorgio iv3ddm

2705. Question on height and max mast diameter

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-04 08:29:35 UTC
From: f8afc
Topic: 2705 Message: 2705

Dear all,
I was wondering
- how affected can be the results when mounting a 5band hex (HX5bi) at 35 feet only ? (compared to the recommended 45 feet)
- What is the max allowable mast diameter for this beam ? I wish to use a 35 mm diameter mast, but recommendation is 32 mm....
- How can I contact Mr Traffie (or any "customer support" team) for additional questions on this 5 band hex (via e-mail would be my favourite way)?

Thanks for any feedback
Ronan, F8AFC

2706. Re: [hex-beam] Question on height and max mast diameter

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-04 13:32:18 UTC
From: bur52@aol.com
Topic: 2705 Message: 2706

I have mine at 38 feet.

I works great. Mr Traffie seems to think the sweet spot is about 35-40 feet.
I used a Rohn 50 foot telescoping mast. I discarded the upper most
(thinest) section. And an additional 10 inces of tubing section from the rotor to the
antenna.

I think it was 1.3 inch.

The mast starts out at 2.5 diameter, then gets a little thinner as the
sections go up. I also have it slightly below the max 40 foot height. As I left a
little more length in each section (over-lap), for a little added strenght (I
HOPE). It is guyed at the rotor. And the lower 15-16 feet of the mast is
bolted to the rear of my stucco home.

The antenna works great. I have worked all over Europe, Russia, Greece...and
the Pacific. It may not be a Big beam...but it does put out a decent signal
!!!!
Good luck !
73
JohnB
KB3LXY

[Non-text portions of this message have been removed]

2707. Re: [hex-beam] Question on height and max mast diameter

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-04 13:35:03 UTC
From: bur52@aol.com
Topic: 2705 Message: 2707

Hello Again..I think Mike Traffie will also sell a mount that will handle the larger diameter mast section. Drop him a line...978-386-7900
John B
73

[Non-text portions of this message have been removed]

2708. hex-beam official e-mail address

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-03 11:19:47 UTC
From: f8afc
Topic: 2708 Message: 2708

Dear all,

I've carefully looked at the official hex-beam web site and the dedicated Yahoo news group, but I couldn't find any e-mail address where I could ask my question for HX-5Bi antenna...If possibly, I'd like to avoid phoning from France to the States.

Does anyone have Mr Traffie's e-mail address for instance ?

I'd like to get sure of one thing before ordering this HX-5Bi (X-mas season is approaching...What a nice present, HI !)

--> What is the mast diameter accepted by this antenna ? Can a 35 mm diameter mast be OK for this antenna (35 mm = 1.37")
It is said that the mast requirement is 1.325"...

--> I plan to put it at 32 feet high. How degraded will be the performances compared to the recommended 40 feet height..??

Thanks for any answer,
73
Ronan, F8AFC

(Please answer to : ronan.torres@...)

PS : Correct me if I'm wrong, but I think I'll be the first (or at least one of the first) French hams using this Hex-beam...

2709. Re: [hex-beam] hex-beam official e-mail address

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-04 14:13:13 UTC
From: Harold Burton
Topic: 2708 Message: 2709

```
----- Original Message -----
From: "f8afc" <f8afc@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, October 03, 2005 6:19 AM
Subject: [hex-beam] hex-beam official e-mail address

> Dear all,
>
> I've carefully looked at the official hex-beam web site and the
> dedicated Yahoo news group, but I couldn't find any e-mail address
> where I could ask my question for HX-5Bi antenna...If possibly, I'd
> like to avoid phoning from France to the States.
>
> Does anyone have Mr Traffie's e-mail address for instance ?
>
> I'd like to get sure of one thing before ordering this HX-5Bi (X-mas
> season is approaching...What a nice present, HI !)
>
> --> What is the mast diameter accepted by this antenna ? Can a 35 mm
> diameter mast be OK for this antenna (35 mm = 1.37")
> It is said that the mast requirement is 1.325"...
>
> --> I plan to put it at 32 feet high. How degraded will be the
> performances compared to the recommended 40 feet height..??
>
> Thanks for any answer,
> 73
> Ronan, F8AFC
>
> (Please answer to : ronan.torres@...)
>
> PS : Correct me if I'm wrong, but I think I'll be the first (or at
> least one of the first) French hams using this Hex-beam...
>

Here's Traffies Hexbeam internet site, this may give you contact info.
See URL below;

http://www.hexbeam.com/

Harold
KD5SAK
```

2710. Re: [hex-beam] hex-beam official e-mail address

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-04 14:16:32 UTC
From: bur52@aol.com
Topic: 2708 Message: 2710

Hi Ronan

I went through the same thing. Mike Traffie does not have a e-mail address.
Seems he is from the "old-school"...LOL

I think he may have a toll free number...I will check , and get back to you,
if he does.
Good luck
73
JohnB
KB3LXY

[Non-text portions of this message have been removed]

2711. Re: hex-beam official e-mail address

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-04 16:17:10 UTC
From: spark_gap2000
Topic: 2708 Message: 2711

--- In hex-beam@yahoogroups.com, bur52@a... wrote:
> Hi Ronan
>
> I went through the same thing. Mike Traffie does not have a e-mail
address.
> Seems he is from the "old-school"...LOL
>
> I think he may have a toll free number...I will check , and get back
to you,
> if he does.
> Good luck
> 73
> JohnB
> KB3LXY
>
>
> [Non-text portions of this message have been removed]

Mr Traffie does not publish his E-maiil address for the simple
reason that he would not have any time to build antennas if he had to
answer E-mail questions.
I suggest you ask your questions in this forum,,That is what it is
here for.
Sparkgap

2712. Want to purchase a Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-04 20:35:19 UTC
From: w5iqs
Topic: 2712 Message: 2712

I would like to purchase a good used Hex beam or components to construct a 20 meter Hex Beam. Prefer Central Texas location for pck-up if materials are not easily shipped.
Evan Roberts, W5IQS

2713. Re: hex-beam official e-mail address

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-05 08:27:04 UTC
From: dl7io
Topic: 2708 Message: 2713

Hello Ronan,
I have time to answer questions and to build antennas.
And a beam from Germany will save you a lot of customs and shipping
costs. The dimensions of my mast support are on the parts page.
www.hexbeam.de
73 Holger

--- In hex-beam@yahoogroups.com, "f8afc" <f8afc@y...> wrote:
> Dear all,
>
> I've carefully looked at the official hex-beam web site and the
> dedicated Yahoo news group, but I couldn't find any e-mail address
> where I could ask my question for HX-5Bi antenna...If possibly, I'd
> like to avoid phoning from France to the States.
>
> Does anyone have Mr Traffie's e-mail address for instance ?
>
> I'd like to get sure of one thing before ordering this HX-5Bi (X-
mas
> season is approaching...What a nice present, HI !)
>
> --> What is the mast diameter accepted by this antenna ? Can a 35
mm
> diameter mast be OK for this antenna (35 mm = 1.37")
> It is said that the mast requirement is 1.325"...
>
> --> I plan to put it at 32 feet high. How degraded will be the
> performances compared to the recommended 40 feet height..??
>
> Thanks for any answer,
> 73
> Ronan, F8AFC
>
> (Please answer to : ronan.torres@r...)
>
> PS : Correct me if I'm wrong, but I think I'll be the first (or at
> least one of the first) French hams using this Hex-beam...

2714. Jamboree on the Air with a Hexbeam portable

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-05 19:34:22 UTC
From: sx88ht20
Topic: 2714 Message: 2714

On Saturday, October 15, BSA Troop 204, Marietta, Georgia, will have 3 hf stations set up participating in the global Scout "Jamboree-on-the-Air". Our callsign will be W4JO, and the station line-up will be:

Station #1 on 20m (+/-14290): Kenwood TS850s / Heathkit SB200 / Hex beam portable

Station #2 on 40m (+/-7270): Yaesu FT897 / W5GI mystery antenna

Station #3 on 17m (+/-18140): Yaesu FT1000d / Buddipole

We will be operating at the Merit Badge University held at Kennesaw State University, Kennesaw, Georgia. We plan to operate from 1300 - 2000 UTC. Over 600 Boy Scouts will be taking one of the 42 Merit Badge classes offered at the event, and we are hoping for a good turnout for the radio Jamboree. Please give us a call and help share the fun of ham radio with the Boy Scouts.

http://www.meritbadge.info
http://www.scouting.org/nav/enter.jsp?s=xx&c=ds&terms=jota
http://www.arrl.org/FandES/ead/ideas.html

James Olson, W4JO

2715. Re: [hex-beam] Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-06 12:56:58 UTC
From: Harvey Mandell
Topic: 2667 Message: 2715

Hi Holger,

I retuned the 15M element slightly (shortened about
0.5 inch) to get the 15M swr down. Values on three
bands are: 20M (14 1.0, 14.4 1.2), 17M (18 1.5, 18.2
2.0), 15M (21 1.5, 21.4 1.5). These measurements with
antenna at 15 feet and about a 30 foot feedline.

Thanks again.

Harvey, WA2AAE

--- dl7io <dl7io@...> wrote:

> Harvey,
> the SWR should not change significant. Give me some
> values at this
> height as well please.
> 73 Holger
>
> --- In hex-beam@yahoogroups.com, Harvey Mandell
> <wa2aae@y...> wrote:
> > I'd be glad to Holger. Right now the antenna is
> only
> > about 15 feet in the air. I thought that the 15M
> SWR,
> > which is good at 21MHZ but higher as I go up in
> > frequency would improve as I raised the antenna.
> It
> > did not so I need to just retune 15M slightly.Do
> you
> > want the SWR values at this height or do you want
> to
> > wait until I raise it into a higher location?
> >
> > Harvey, WA2AAE
> >
> > --- dl7io <dl7io@q...> wrote:
> >
> > > Harvey,
> > > good to hear everything is working.
> > > Can you please send me some SWR values (3-4 for
> > > every band) together
> > > with info on height and coax length?
> > > TNX Holger
> > >

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http://mail.yahoo.com

2716. Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-06 19:28:50 UTC
From: dl7io
Topic: 2667 Message: 2716

Hello Harvey,
thanks for the data.
In my eyes all bands are a bit to short.
The target is not to have as low SWR as possible.
The SWR curve is going so that it comes down from high values very sharp and moves slighty on a low level before it increases again more softly.
So if you have the situation that at 14.0 MHz the SWR is very low the elements are about 200-300 kHz to short. The SWR in CWportion of the bands should be near 1:2 (about 1:1.8) and comes more down with higher frequeny. This would be better because we would have more gain. Remember that the hexagonal design loses 2 dB gain over the range of about 300 kHz.

If you have a chance, please try to add about 10cm or 4in. to the 20m elements. In theory this should bring the SWR on 14.0 to about 1:1.8 or 1:1.7 and give you the point with best SWR at about 14.3 MHz.

If this works add about 7 cm or 2,8 in. to the 17m elements. This may be a bit to much but it is easier to cut it. 4 cm might be ok here as well.

Where has been the 15m resonance before you cut off the 0.5 in.?

73 Holger

--- In hex-beam@yahoogroups.com, Harvey Mandell <wa2aae@y...> wrote:
> Hi Holger,
>
> I retuned the 15M element slightly (shortened about
> 0.5 inch) to get the 15M swr down. Values on three
> bands are: 20M (14 1.0, 14.4 1.2), 17M (18 1.5, 18.2
> 2.0), 15M (21 1.5, 21.4 1.5). These measurements with
> antenna at 15 feet and about a 30 foot feedline.
>
> Thanks again.
>
> Harvey, WA2AAE
>
> --- dl7io <dl7io@q...> wrote:
>
> > Harvey,
> > the SWR should not change significant. Give me some
> > values at this
> > height as well please.
> > 73 Holger

> >
> > --- In hex-beam@yahoogroups.com, Harvey Mandell
> > <wa2aae@y...> wrote:
> > > I'd be glad to Holger. Right now the antenna is
> > only
> > > about 15 feet in the air. I thought that the 15M
> > SWR,
> > > which is good at 21MHZ but higher as I go up in
> > > frequency would improve as I raised the antenna.
> > It
> > > did not so I need to just retune 15M slightly.Do
> > you
> > > want the SWR values at this height or do you want
> > to
> > > wait until I raise it into a higher location?
> > >
> > > Harvey, WA2AAE
> > >
> > > --- dl7io <dl7io@q...> wrote:
> > >
> > > > Harvey,
> > > > good to hear everything is working.
> > > > Can you please send me some SWR values (3-4 for
> > > > every band) together
> > > > with info on height and coax length?
> > > > TNX Holger
> > > >
> > > >
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> > > _____
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2717. Re: [hex-beam] Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-06 22:53:18 UTC
From: Harvey Mandell
Topic: 2667 Message: 2717

OK Holger,

The SWR on 15M was about 2 across the band and my rig did not like this. To avoid using the antenna tunner I trimmed it so the SWR is 1.5, which does not bother my 751A. When I get a chance I'll try you suggestions to lengthen the elements on 20M. Rain is predicted for the next few days so I'll have to wait to try the change.

Thanks again.

Harvey, WA2AAE

--- dl7io <dl7io@...> wrote:

> Hello Harvey,
> thanks for the data.
> In my eyes all bands are a bit to short.
> The target is not to have as low SWR as possible.
> The SWR curve is going so that it comes down from
> high values very
> sharp and moves slighty on a low level before it
> increases again more
> softly.
> So if you have the situation that at 14.0 MHz the
> SWR is very low the
> elements are about 200-300 kHz to short. The SWR in
> CWportion of the
> bands should be near 1:2 (about 1:1.8) and comes
> more down with
> higher frequeny. This would be better because we
> would have more
> gain. Remember that the hexagonal design loses 2 dB
> gain over the
> range of about 300 kHz.
>
> If you have a chance, please try to add about 10cm
> or 4in. to the 20m
> elements. In theory this should bring the SWR on
> 14.0 to about 1:1.8
> or 1:1.7 and give you the point with best SWR at
> about 14.3 MHz.
>
> If this works add about 7 cm or 2,8 in. to the 17m
> elements. This may

> be a bit to much but it is easier to cut it. 4 cm
> might be ok here as
> well.
>
> Where has been the 15m resonance before you cut off
> the 0.5 in.?
>
> 73 Holger
>

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Donate to the Hurricane Katrina relief effort.
http://store.yahoo.com/redcross-donate3/

2718. Re: [hex-beam] Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-06 23:04:54 UTC
From: Harvey Mandell
Topic: 2667 Message: 2718

One thing I forgot to question. When I lengthen the elements by 10cm, I assume this applies to both the driven and reflector elements?

Harvey

--- dl7io <dl7io@...> wrote:

> Hello Harvey,
> thanks for the data.
> In my eyes all bands are a bit to short.
> The target is not to have as low SWR as possible.
> The SWR curve is going so that it comes down from
> high values very
> sharp and moves slighty on a low level before it
> increases again more
> softly.
> So if you have the situation that at 14.0 MHz the
> SWR is very low the
> elements are about 200-300 kHz to short. The SWR in
> CWportion of the
> bands should be near 1:2 (about 1:1.8) and comes
> more down with
> higher frequeny. This would be better because we
> would have more
> gain. Remember that the hexagonal design loses 2 dB
> gain over the
> range of about 300 kHz.
>
> If you have a chance, please try to add about 10cm
> or 4in. to the 20m
> elements. In theory this should bring the SWR on
> 14.0 to about 1:1.8
> or 1:1.7 and give you the point with best SWR at
> about 14.3 MHz.
>
> If this works add about 7 cm or 2,8 in. to the 17m
> elements. This may
> be a bit to much but it is easier to cut it. 4 cm
> might be ok here as
> well.
>
> Where has been the 15m resonance before you cut off
> the 0.5 in.?
>
> 73 Holger

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2719. Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-07 08:16:22 UTC
From: dl7io
Topic: 2667 Message: 2719

Yes Harvey, this is correct.
Add this length to every of the wire elements.
73 Holger

--- In hex-beam@yahoogroups.com, Harvey Mandell <wa2aae@y...> wrote:
>
> One thing I forgot to question. When I lengthen the
> elements by 10cm, I assume this applies to both the
> driven and reflector elements?
>
> Harvey
>
> --- dl7io <dl7io@q...> wrote:
>
> > Hello Harvey,
> > thanks for the data.
> > In my eyes all bands are a bit to short.
> > The target is not to have as low SWR as possible.
> > The SWR curve is going so that it comes down from
> > high values very
> > sharp and moves slighty on a low level before it
> > increases again more
> > softly.
> > So if you have the situation that at 14.0 MHz the
> > SWR is very low the
> > elements are about 200-300 kHz to short. The SWR in
> > CWportion of the
> > bands should be near 1:2 (about 1:1.8) and comes
> > more down with
> > higher frequeny. This would be better because we
> > would have more
> > gain. Remember that the hexagonal design loses 2 dB
> > gain over the
> > range of about 300 kHz.
> >
> > If you have a chance, please try to add about 10cm
> > or 4in. to the 20m
> > elements. In theory this should bring the SWR on
> > 14.0 to about 1:1.8
> > or 1:1.7 and give you the point with best SWR at
> > about 14.3 MHz.
> >
> > If this works add about 7 cm or 2,8 in. to the 17m
> > elements. This may
> > be a bit to much but it is easier to cut it. 4 cm

> > might be ok here as
> > well.
> >
> > Where has been the 15m resonance before you cut off
> > the 0.5 in.?
> >
> > 73 Holger
>
>
>
>
> _____
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>

2720. Hex/Dipole A/Bs

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-09 17:56:55 UTC
From: Darren GØTSM
Topic: 2720 Message: 2720

Well, I've just completed a week of A/B tests between dipoles for 10-20m against my 5 band hexbeam. Both antennae were using the same length of feeder and the height of the dipole was adjusted to the same height as the hex beam element I was checking against.
The local station I used to check the results with was 9KM away. The last time I ran these tests on a hex made of insulated wire I got a lot of negative results, poor gain negative f/b on 12m etc. This time using Holger's measurements and Flexweave 12# wire the performance is much better.
All measurements are in S units but in reality the S units are about 2dB.

With local station

With DX stations (average sigs)

Hex Gain (S units)

F/B (S units)

Hex Gain (S units)

F/B (S units)

20

1

4

4

8

17

1

4

4

6

15

1

3

3

4

12

1

4

2

4

10

0

4

0

3

The best performance was on 20M, typically VR2/9M/VK were S9 on the Hex and hardly readable on the dipole due to no signal and loud echoes, this happened time and time again.

When you switch from a dipole to the hex the noise floor dramatically falls away revealing many more stations. I've just worked the 3G DXped on 12M/CW who were 539 on the hex and not even a trace of them on the dipole..
The next experiment is to add a parasitic 10M director to the hex to try and improve the 10M performance.

Darren GØTSM

[Non-text portions of this message have been removed]

2721. Re: [hex-beam] Hex/Dipole A/Bs

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-09 18:22:56 UTC
From: Darren GØTSM
Topic: 2720 Message: 2721

Doesnt like tables :-)

With local station With DX stations (average sigs)
Band Gain (S units) F/B Gain (S units) F/B
20 1 4 4 8
17 1 4 4 6
15 1 3 3 4
12 1 4 2 4
10 0 4 0 3

Darren GØTSM wrote:
> Well, I've just completed a week of A/B tests between dipoles for 10-20m
> against my 5 band hexbeam. Both antennae were using the same length of
> feeder and the height of the dipole was adjusted to the same height as
> the hex beam element I was checking against.
> The local station I used to check the results with was 9KM away. The
> last time I ran these tests on a hex made of insulated wire I got a lot
> of negative results, poor gain negative f/b on 12m etc. This time using
> Holger's measurements and Flexweave 12# wire the performance is much
> better.
> All measurements are in S units but in reality the S units are about 2dB.
>
>
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>
> With local station
>
>
>
> With DX stations (average sigs)
>
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>
> Hex Gain (S units)
>
>
>
> F/B (S units)
>
>

>
> Hex Gain (S units)
>
>
>
> F/B (S units)
>
> 20
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> 8
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> 17
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> 10
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> 0
>
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> 4
>
>
>
> 0
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>

>
>
> The best performance was on 20M, typically VR2/9M/VK were S9 on the Hex
> and hardly readable on the dipole due to no signal and loud echoes, this
> happened time and time again.
>
> When you switch from a dipole to the hex the noise floor dramatically
> falls away revealing many more stations. I've just worked the 3G DXped
> on 12M/CW who were 539 on the hex and not even a trace of them on the
> dipole..
> The next experiment is to add a parasitic 10M director to the hex to try
> and improve the 10M performance.
>
>
> Darren GØTSM
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "hex-beam
> <http://groups.yahoo.com/group/hex-beam>" on the web.
>
> * To unsubscribe from this group, send an email to:
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>
>
> ---
>

[Non-text portions of this message have been removed]

2722. 30m monobander

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-09 15:52:05 UTC
From: zs1vu
Topic: 2722 Message: 2722

Hi Guys,
Anyone got dimensions for a 10.1 mHz mono-bander?
I think the dimensions I found so far were for multi-banders which could possibly be different to a mono.
Thanks,
Johan ZS1VU.

2723. Re: K7C

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-11 16:32:51 UTC
From: w4wb
Topic: 2667 Message: 2723

Good job Jim. I worked K7C on 15 m CW and got him on the 2nd call.
He was 559 to 569 on my 5-band Hex-Beam. I called a friend that
needed KH7K but he wasn't able to hear him at all on his vertical! I
let him listen over the cell phone. Sad part is that he has a 5-band
Hex-Beam sitting in a box in his garage for about a year. He says he
has been too busy to get it up in the air. Oh well.
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, James Balls <jim@m...> wrote:
>
> All,
>
> Worked K7C this morning on 20m using the Hex beam 10m and 400w, He
heard
> me after about 5 calls, I couldn't hear him on the 130' doublet or
GAP
> titan but he was 5/5 on the hex with QSB, it still amazes me how low
the
> noise is on the Hex and how well it performs.
>
> Jim M0CKE
>

2724. Re: 30m monobander

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-11 17:23:40 UTC
From: dl7io
Topic: 2722 Message: 2724

Hello Johan,
go to the file section --> DL7IO.
There is a file called reflectedWsingleband.zip
This includes EZNEC files and an Excel file with/for singleband
dimensions on the first sheet.
73 Holger

--- In hex-beam@yahoogroups.com, "zs1vu" <zs1vu@y...> wrote:
>
> Hi Guys,
> Anyone got dimensions for a 10.1 mHz mono-bander?
> I think the dimensions I found so far were for multi-banders which
> could possibly be different to a mono.
> Thanks,
> Johan ZS1VU.
>

2725. Re: K7C

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-11 23:14:28 UTC
From: zerobeat40
Topic: 2667 Message: 2725

Well, bother, as it were, then!

I made it through to them the easy way. 160 meter CW on 25W to a 40 meter vertical-plus-tuner when they were booming in, first call. I truly did want to work them on other bands, and whilst I did hear them on other bands, it was always at a time when they were focusing on a part of the world other than mine.

My dx-ploits with the Hex beam shall have to wait until the time when a dxpedition is attempting to work my continent at the same time that they are actually propagating to my continent!

When is the next sunspot peak?

Zed

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@a...> wrote:
>
> Good job Jim. I worked K7C on 15 m CW and got him on the 2nd call.
> He was 559 to 569 on my 5-band Hex-Beam. I called a friend that
> needed KH7K but he wasn't able to hear him at all on his vertical! I
> let him listen over the cell phone. Sad part is that he has a 5-band
> Hex-Beam sitting in a box in his garage for about a year. He says he
> has been too busy to get it up in the air. Oh well.
> 73,
> Barry W4WB
>
> --- In hex-beam@yahoogroups.com, James Balls <jim@m...> wrote:
> >
> > All,
> >
> > Worked K7C this morning on 20m using the Hex beam 10m and 400w, He
> heard
> > me after about 5 calls, I couldn't hear him on the 130' doublet or
> GAP
> > titan but he was 5/5 on the hex with QSB, it still amazes me how low
> the
> > noise is on the Hex and how well it performs.
> >
> > Jim M0CKE
> >
>

2726. swr 1.2 :1 tune but 3:1 ssb

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-15 16:42:38 UTC
From: ke5fqy
Topic: 2726 Message: 2726

I made a homebrew hexbeam.
Very good reception.
it's a 20/15/10.
20 meters without a tuner is 2:1 I can tune it to 1.2:1 using a tuner and RTTY signal at 30-80 watts (ic718). When I switch to ssb to transmit my swr goes real high with my voice. Switch back to a tune tone and the swr is 1.2:1. I just tried CW and the swr seems stay at 1.2:1 (makes sense because it is a tone like the rtty).

Any thoughts.
Thank you

2727. New 20 meter Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-18 01:55:32 UTC
From: Evan Roberts
Topic: 2727 Message: 2727

Good Evening Hex Beam Friends

I ordered a HXL-20 last week and it arrived today (10/18). Exactly one hour after I opened the package I had completed assembly of the beam. It was on a rollaround cart about 6 feet above the ground. I knew that it wouldn't work at that elevation but I thought it may receive so I ran about 50 feet of RG-58 coax to my IC-706 (100w) in the car. I heard a weak ZS4 on 14,185. I rotated the hex beam by hand and listened for the best received signal. It peaked at about 215 degrees Magnetic (estimated). the ZS4 was now a good 5-7. I called him and immediately received a reply. He gave me a 5-4 report. This is great for an antenna 6 feet high. The VSWR was 2:1 with no ferrite or other RF choke on the feedline.

I have a lot to learn about Hex Beams but I am encouraged to say the least

Evan, W5IQS

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[Non-text portions of this message have been removed]

2728. Re: [hex-beam] swr 1.2 :1 tune but 3:1 ssb

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-17 16:31:10 UTC
From: Evan Roberts
Topic: 2726 Message: 2728

The difference in SWR readings between RTTY and SSB is most likely a feature of your SWR measurement system. As to the CW versus RTTY, CW is not a tone. CW is pure carrier unless you are using MCW which I seriously doubt.

Evan, W5IQS

ke5fqy <jpwhelton@...> wrote:
I made a homebrew hexbeam.
Very good reception.
it's a 20/15/10.
20 meters without a tuner is 2:1 I can tune it to 1.2:1 using a tuner
and RTTY signal at 30-80 watts (ic718). When I switch to ssb to
transmit my swr goes real high with my voice. Switch back to a tune
tone and the swr is 1.2:1. I just tried CW and the swr seems stay at
1.2:1 (makes sense because it is a tone like the rtty).

Any thoughts.
Thank you

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[Non-text portions of this message have been removed]

2729. Tri band version

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-19 00:42:31 UTC
From: xbrnr
Topic: 2729 Message: 2729

Hi guys,
I was wondering if anyone has ever built a hexbeam for 20-15-and 10 ONLY? I dont use the WARC bands.I looked back on the board but couldnt find anything for tri-band.

Thanks and 73

Rick KA2PB0

2730. Anyone try building a 20-15 -10 mtr version?? KA2PBO

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-17 23:45:02 UTC
From: xbrnr
Topic: 2730 Message: 2730

Hi guys,
I love this message board!!!Ive been following everyones projects and findings for a while now.I hope to build my own soon but have only need for 20-10 mtrs ; noWARC bands.Has anyone built a tri-bander yet??

Thanks
Rick KA2PBO

2731. Re: [hex-beam] New 20 meter Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-20 03:04:06 UTC
From: bur52@aol.com
Topic: 2727 Message: 2731

Another hex on the air !

I worked a number of european stations at 15 feet, the first day I finished mine. I eventualy got it up to 38 feet. Tuesday I worked VQ9OW in the indian ocean. Conditions were so so. But I still managed a 5/8 report, using 500 watts. These antennas are a pretty god set up. It is not a full size yagi...but not a bad choice !
Good luck with it !
JohnB
kb3lxy

[Non-text portions of this message have been removed]

2732. Succesfull Jamboree

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-21 08:42:04 UTC
From: thestairway
Topic: 2732 Message: 2732

Hello All,

Last weekend we had a very good Jamboree with the scouts. I build a five band Hexbeam with the material I could find in the shops.
Not with glassfiber, not available here. But instead I used PVC piping. For those two days of operation it worked very well and I stacked the antenna (very easy to put the parts together again) in the attick for next year.
I found the antenna to be sensitive enough, and I had very noticable front to back ratio. (about 4 S points difference).
The only point of attention might be the the low tension on the wires, due to the PVC it is nog possible to get very straight wires (only if using very thin wire maybe).

For the feedline I used crossed "open-line" with ordinary twinline (in my case loudspeaker cable of 1mm diameter). With normal open line or twinline it is impossible to get the 50 Ohms impedance.
With the crossed line I got a theoretical impedance of about 60 Ohms. Due to the dielectricum it will be a bit lower than that, so very close to 50 Ohm. I have read some threads on the feedline in this group. It is only possible with crossed line to get a low impedance, some of you may want to try this. Another good point of crossed line is less noise in reception (But the piece of line is very short in the HexBeam so the noise is already very low).

At the bottom of the antenna I put an 1:1 balun with coax SO230 connector and a HF choke for the coax.

Height of the antenna only about 6 to 7 meters above ground, in the forest near trees.
We worked Indianapolis, Iceland, Moskou, Cyprus with very good signal reports, between 5 and 9 + with running 75 to 100 Watts.

I know some people made photographs of the antenna, If I can get them I will put them in a map in this group.

Kind regards from Han, PE7AOT

2733. Re: [hex-beam] Anyone try building a 20-15 -10 mtr version?? KA2PBO

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-23 22:03:42 UTC
From: chris casey
Topic: 2730 Message: 2733

I think I'm going to just cut the 20/15/10m elements for the 5 band version that dl7io describes in reflectedW-design-en.pdf. I've build the antenna once with insulated stranded copper and decided to restring it with bare copper and paying better attention. It wasnt what I had expected and the element length slop cutting and velocity factor made a mess of things. But I would sure like to just do the 20/15/10m elements and skip the rest. Guess if that doesnt work I'll just cut the 17/12 and string them in, worth a shot. I dont see how different the spacing could vastly different, lengths may be.

I cant find anything about just a plan 20/15/10 in the files section, but I cant say its not there, just isnt jumping out at me.

Maybe this will rouse someone on the list, maybe even dl7io will jump up and say "please dont make a monster of my creation!" and tell us what would be better :)

good luck

On 10/17/05, xbrnr <xbrnr@...> wrote:
> Hi guys,
> I love this message board!!!Ive been following everyones projects and
> findings for a while now.I hope to build my own soon but have only need
> for 20-10 mtrs ; noWARC bands.Has anyone built a tri-bander yet??
>
>
> Thanks
> Rick KA2PBO
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2734. Re: Anyone try building a 20-15 -10 mtr version?? KA2PBO

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-24 00:12:26 UTC
From: Colin
Topic: 2730 Message: 2734

It seems that you can remove the 12m and 17m elements without
affecting performance, as long as you leave the feedline positions on
the center post at the proper spacing.
Imho,you may as well have all 5 bands though as the cost, weight,
work, and windloading of the additional 12m and 17m elements will be
negligable.

73
Colin M3XBM

--- In hex-beam@yahoogroups.com, chris casey <cscvrp@g...> wrote:
>
> I think I'm going to just cut the 20/15/10m elements for the 5 band
> version that dl7io describes in reflectedW-design-en.pdf. I've build
> the antenna once with insulated stranded copper and decided to
> restring it with bare copper and paying better attention. It wasnt
> what I had expected and the element length slop cutting and velocity
> factor made a mess of things. But I would sure like to just do the
> 20/15/10m elements and skip the rest. Guess if that doesnt work I'll
> just cut the 17/12 and string them in, worth a shot. I dont see how
> different the spacing could vastly different, lengths may be.
>
> I cant find anything about just a plan 20/15/10 in the files
section,
> but I cant say its not there, just isnt jumping out at me.
>
> Maybe this will rouse someone on the list, maybe even dl7io will
jump
> up and say "please dont make a monster of my creation!" and tell us
> what would be better :)
>
> good luck
>
> On 10/17/05, xbrnr <xbrnr@y...> wrote:
> > Hi guys,
> > I love this message board!!!Ive been following everyones
projects and
> > findings for a while now.I hope to build my own soon but have
only need
> > for 20-10 mtrs ; noWARC bands.Has anyone built a tri-bander yet??
> >
> >
> > Thanks
> > Rick KA2PBO
> >

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2735. They work

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-24 02:07:39 UTC
From: bur52
Topic: 2735 Message: 2735

Hello all
I worked VQ9OW. Indian ocean. 5-8 signal report. Large pile-up , third call, with 600 watts on 20 meters.My QTH is on the east coast of the USA.
Not a full size beam, but no slouch either !
73
JohnB
Kb3lxy

2736. Re: [hex-beam] They work

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-24 02:25:41 UTC
From: Harold Burton
Topic: 2735 Message: 2736

----- Original Message -----
From: "bur52" <bur52@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, October 23, 2005 9:07 PM
Subject: [hex-beam] They work

> Hello all
> I worked VQ9OW. Indian ocean. 5-8 signal report. Large pile-up , third
> call, with 600 watts on 20 meters.My QTH is on the east coast of the
> USA.
> Not a full size beam, but no slouch either !
> 73
> JohnB
> Kb3lxy
>

I recently helped a friend build a 20 meter monoband hexbeam. I think his cost for the entire antenna did not much exceed $50. With his HexBeam he has had very similar experiences to what you relate. His output wattage is 100 watts or less. I've been so impressed by his HexBeam experiences that I'm acquiring material now to build one of my own.

Harold
KD5SAK

2737. Re: [hex-beam] They work

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-24 03:16:21 UTC
From: Harold Burton
Topic: 2735 Message: 2737

----- Original Message -----
From: "Harold Burton" <kd5sak@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, October 23, 2005 9:25 PM
Subject: Re: [hex-beam] They work

>
> ----- Original Message -----
> From: "bur52" <bur52@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Sunday, October 23, 2005 9:07 PM
> Subject: [hex-beam] They work
> I recently helped a friend build a 20 meter monoband hexbeam. I think
> his cost for the entire antenna did not much exceed $50. With his
> HexBeam he has had very similar experiences to what you relate. His
> output wattage is 100 watts or less. I've been so impressed by his
> HexBeam experiences that I'm acquiring material now to build one of my
> own.
>
> Harold
> KD5SAK
>
>
>
After sending the previous message it occurred to me that it might be
useful to other hexBeam antenna homebrewers if I passed on info about
some fiberglass material I've discovered. I've found that in the U. S.
there are several manufacturers of fiberglass electric fence posts.
These are simply rods of fiberglass ranging from 3/8 inch to 1 1/4
inches in diameter and in lengths from 48 inches to 84 inches. Some of
the thicker rods will prove much too heavy for our purposes but the 3/8
inch and 1/2 inch diameters should work well. The makers of these posts
ship to farm and ranch stores all over the country. The sizes available
in your home area will vary according to what the locals choose to sell.
My own southern Oklahoma area seems to be limited to 3/8 inch by 48 inch
posts and I'll have to devise a method of splicing them into the
neccessary lengths. Should the 5 and 6 foot lengths of 3/8 and 1/2 inch
posts be available in your home area creating the neccessary fiberglass
radials should be relatively easy. One could order these lengths of
posts and the prices are relatively low. but there is a catch 22. UPS
and others have premium shipping rates for longer packages (six feet or
longer). I priced some 1/2" diameter 6 footers and the dozen required
came to only about 30 dollars, unfortunately the shipping costs were
about 55 dollars. My Scots blood (and my innate frugality(g)) are
offended by this extortion. There are 2 brands of posts manufactured in

Pennsylvania and at least one other brand made in Minnesota. There may be other manufacturers in addition to these. I envy those of you living close enough to have access to their complete stock. Good Homebrewing, Gents.

Harold
KD5SAK

2738. elements in the same plane?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-23 18:12:51 UTC
From: buysmart2002
Topic: 2738 Message: 2738

On a multi-band hexbeam, is there any problem if the elements are in the same plane instead of in a bowl shaped configuration? Seems to me it could be easier to construct and get all the elements sized properly if they are all in a flat plane using a rigid structure. Anyone have any ideas as to whether this would work? K4KIO

2739. Re: elements in the same plane?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-24 06:07:07 UTC
From: Colin
Topic: 2738 Message: 2739

Close proximetry of the wires will really affect the tuning.
Being in the same "flat" plane will result in all the inner element
legs eminating from the same point.

I did experiment with the flat plane idea by modelling a hexbeam where
all the bands shared a common inner wire to the knee points..needless
to say it wasn`t a great success HI

It`s all fun though :)
73
Colin M3XBM

--- In hex-beam@yahoogroups.com, "buysmart2002" <buysmart2002@y...>
wrote:
>
> On a multi-band hexbeam, is there any problem if the elements are in
> the same plane instead of in a bowl shaped configuration? Seems to me
> it could be easier to construct and get all the elements sized
> properly if they are all in a flat plane using a rigid structure.
> Anyone have any ideas as to whether this would work? K4KIO
>

2740. Re: [hex-beam] Re: elements in the same plane?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-24 06:26:42 UTC
From: m0clz
Topic: 2738 Message: 2740

Hi

Do you mean a spiderbeam ?
http://groups.yahoo.com/group/spiderbeam/
http://www.spiderbeam.net/
It is much larger than a hexbeam.

I have had my hexbeam since july, still not put it up yet :-)

Dick m0clz

----- Original Message -----
From: "Colin" <djcol1@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, October 24, 2005 7:07 AM
Subject: [hex-beam] Re: elements in the same plane?

>
> Close proximetry of the wires will really affect the tuning.
> Being in the same "flat" plane will result in all the inner element
> legs eminating from the same point.
>
> I did experiment with the flat plane idea by modelling a hexbeam where
> all the bands shared a common inner wire to the knee points..needless
> to say it wasn`t a great success HI
>
> It`s all fun though :)
> 73
> Colin M3XBM
>
> --- In hex-beam@yahoogroups.com, "buysmart2002" <buysmart2002@y...>
> wrote:
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>> the same plane instead of in a bowl shaped configuration? Seems to me
>> it could be easier to construct and get all the elements sized
>> properly if they are all in a flat plane using a rigid structure.
>> Anyone have any ideas as to whether this would work? K4KIO
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> _____ NOD32 1.1263 (20051021) Information _____
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> This message was checked by NOD32 antivirus system.
> http://www.eset.com
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> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.361 / Virus Database: 267.12.4/146 - Release Date: 21/10/2005
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> _____ NOD32 1.1263 (20051021) Information _____
>
> This message was checked by NOD32 antivirus system.
> http://www.eset.com
>
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2741. Re: [hex-beam] Re: Anyone try building a 20-15 -10 mtr version?? KA2PBO

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-24 15:17:21 UTC
From: chris casey
Topic: 2730 Message: 2741

Its mostly me being able to work on it in 15 minute increments cause of my many other more important things to do like take care of the kids or finish remodeling the bathrrom and put the toilet back in so we can park the car in the garage. I put this thing together last year in time for sweepstakes phone, then took it back down to redo some things that I didnt like how they turned out, still dont like my element attaching to spreader scheme. center hub is too big, spreaders pulled into S shapes... but it seemed to work.

Its that time again to get this thing out and put it up for my yearly contest. I put rings with a paint pen on the spreaders at 20cm intervals to assist with eyeballing things to be sorta all even across the spreaders, have bare copper to redo the elements with, still rethinking how to attach the elements to the spreaders.

So in my 15 minutes at a time existance 8 pieces to cut and put terminal ends on is fairly substantial, especially since as its probably only up for a couple weeks I wont use those bands anyway.

If the leaving off these out works and leaves me the option of putting them in fairly easily later then I'll probably work up those elements eventually and string them. All the mounts on the center mast are there already so it should just be a couple lock nuts and however I attach to the spreaders.

I guess while I'm at it, how are people attaching to spreaders, short of machineing something? I had ss hose clamps with zip ties holding short pieces of tubing, seemed to migrate a bit as it sat there under tension. I've seen essentially the same thing on some of the pics section. dunnno

Thanks

On 10/23/05, Colin <djcol1@...> wrote:
> It seems that you can remove the 12m and 17m elements without
> affecting performance, as long as you leave the feedline positions on
> the center post at the proper spacing.
> Imho,you may as well have all 5 bands though as the cost, weight,
> work, and windloading of the additional 12m and 17m elements will be
> negligable.
>
> 73
> Colin M3XBM
>
> --- In hex-beam@yahoogroups.com, chris casey <cscvrp@g...> wrote:

> >
> > I think I'm going to just cut the 20/15/10m elements for the 5 band
> > version that dl7io describes in reflectedW-design-en.pdf. I've build
> > the antenna once with insulated stranded copper and decided to
> > restring it with bare copper and paying better attention. It wasnt
> > what I had expected and the element length slop cutting and velocity
> > factor made a mess of things. But I would sure like to just do the
> > 20/15/10m elements and skip the rest. Guess if that doesnt work I'll
> > just cut the 17/12 and string them in, worth a shot. I dont see how
> > different the spacing could vastly different, lengths may be.
> >
> > I cant find anything about just a plan 20/15/10 in the files
> section,
> > but I cant say its not there, just isnt jumping out at me.
> >
> > Maybe this will rouse someone on the list, maybe even dl7io will
> jump
> > up and say "please dont make a monster of my creation!" and tell us
> > what would be better :)
> >
> > good luck
> >
> > On 10/17/05, xbrnr <xbrnr@y...> wrote:
> > > Hi guys,
> > > I love this message board!!!Ive been following everyones
> projects and
> > > findings for a while now.I hope to build my own soon but have
> only need
> > > for 20-10 mtrs ; noWARC bands.Has anyone built a tri-bander yet??
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> > > Thanks
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2742. Re: Anyone try building a 20-15 -10 mtr version?? KA2PBO

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-24 17:45:51 UTC
From: Colin
Topic: 2730 Message: 2742

Hi Chris,

I see what you mean :)

The "S" shaped spreaders can be tamed somewhat by adding extra
insulated lines across the non element spans to form complete
hexagons.
You do have to be really careful of the tensioning effect though.

I don`t use any hose clamps at the element connection points, as i
found the tube would be pushed out of the cable tie by the side
pressure of the wire.
A lot depends on what material you are using for the spreaders.

73
Colin M3XBM

--- In hex-beam@yahoogroups.com, chris casey <cscvrp@g...> wrote:
>
> Its mostly me being able to work on it in 15 minute increments cause
> of my many other more important things to do like take care of the
> kids or finish remodeling the bathrrom and put the toilet back in so
> we can park the car in the garage. I put this thing together last
year
> in time for sweepstakes phone, then took it back down to redo some
> things that I didnt like how they turned out, still dont like my
> element attaching to spreader scheme. center hub is too big,
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> pulled into S shapes... but it seemed to work.
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> Its that time again to get this thing out and put it up for my
yearly
> contest. I put rings with a paint pen on the spreaders at 20cm
> intervals to assist with eyeballing things to be sorta all even
across
> the spreaders, have bare copper to redo the elements with, still
> rethinking how to attach the elements to the spreaders.
>
> So in my 15 minutes at a time existance 8 pieces to cut and put
> terminal ends on is fairly substantial, especially since as its
> probably only up for a couple weeks I wont use those bands anyway.
>
> If the leaving off these out works and leaves me the option of
putting
> them in fairly easily later then I'll probably work up those
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> eventually and string them. All the mounts on the center mast are
> there already so it should just be a couple lock nuts and however I
> attach to the spreaders.
>
> I guess while I'm at it, how are people attaching to spreaders,
short
> of machineing something? I had ss hose clamps with zip ties holding
> short pieces of tubing, seemed to migrate a bit as it sat there
under
> tension. I've seen essentially the same thing on some of the pics
> section. dunnno
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>
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> > 73
> > Colin M3XBM
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> > > factor made a mess of things. But I would sure like to just do
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2743. Re: [hex-beam] Re: Anyone try building a 20-15 -10 mtr version?? KA2PBO

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-24 18:44:09 UTC
From: chris casey
Topic: 2730 Message: 2743

I'm using an 8' length of 3/4" fiberglass tube with a nested 4' piece of 1/2" rod in the end, then a short stub of 1" tube over the 3/4" at the base just to fit the ubolts and be a bit more robust. This was all from max-gain.

What are you using for your connection to the spreaders? I tried just cinching down a small piece of tubing with zip ties which worked ok but everything twisted and looked kinda funny, didnt seem like it was going to work.

I found at one point nylon hose clamps in a zip-tie sorta size, someone was making them in Australia I think, looked like the perfect thing but it was a "will be available soon" type thing and on the wrong continent. Silly internet taunting.

On 10/24/05, Colin <djcol1@...> wrote:
> Hi Chris,
>
> I see what you mean :)
>
> The "S" shaped spreaders can be tamed somewhat by adding extra
> insulated lines across the non element spans to form complete
> hexagons.
> You do have to be really careful of the tensioning effect though.
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> I don`t use any hose clamps at the element connection points, as i
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> A lot depends on what material you are using for the spreaders.
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> > Thanks
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> > > Imho,you may as well have all 5 bands though as the cost, weight,
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> band
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2744. Re: Anyone try building a 20-15 -10 mtr version?? KA2PBO

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-24 22:07:48 UTC
From: Colin
Topic: 2730 Message: 2744

Hi Chris,

Like others i`ve experimented with different methods of attaching the elements to the spreaders.

The main things are that the "clamp" is adjustable on the spreader (for finding the correct placement)and the wire is free to move through it.

Ideally the clamp should be inexpensive,weatherproof and lightweight but still grip the spreader like a limpet :)

Initially the good old hoseclamp and tube approach worked great until the tubes were pushed out of the cable ties,leaving the wires supported by the ties alone..

"Plan B" used plastic blocks is shown in this picture:

http://usera.imagecave.com/djcol/Hexbeam/wireelementsupports.jpg

It worked very well, but unfortunately in high winds the clamps were unable to grip the spreader sufficiently well and slippage occurred,which left the elements somewhat "saggy".

The latest and most successful method is shown in this picture:

http://usera.imagecave.com/djcol/Hexbeam/elementtospreaderconnection.jpg

Initial positioning is achieved using temporary cable ties through the 2 holes.
once found i marked the position on the spreader and drilled 2 holes for the 3.5mm nickel plated brass machine screws.
These are normally used to fix power/lighting sockets to the wall boxes.They come in boxes of 500 and are extremely cheap from any electrical wholesaler (the brass nuts are ordered seperately).

No slippage,no corrosion ,lightweight and very inexpensive.
Also less metal near the elements.
Although i use 3.2mm wall fibreglass tube for my spreaders they do work on the thin "crappie" rods too and are probably safer than tube crushing hose clamps.

With "crappie" rods I would use a single bolt fixing through the "one hole side" and a cable tie through one of the two holes to prevent twist..this leaves a hole for the element wire.
In either case the dacron support lines can also use the holes in the clamps as attachment points.

A dab of exterior silicon sealant over the screw heads and brass nuts
keeps things like new.

Lots of ways to skin a cat as they say, this is the method that has
worked very well for me.

73
Colin M3XBM

--- In hex-beam@yahoogroups.com, chris casey <cscvrp@g...> wrote:
>
> I'm using an 8' length of 3/4" fiberglass tube with a nested 4'
piece
> of 1/2" rod in the end, then a short stub of 1" tube over the 3/4"
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> the base just to fit the ubolts and be a bit more robust. This was
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> but everything twisted and looked kinda funny, didnt seem like it
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> thing but it was a "will be available soon" type thing and on the
> wrong continent. Silly internet taunting.
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> On 10/24/05, Colin <djcol1@y...> wrote:
> > Hi Chris,
> >
> > I see what you mean :)
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> > The "S" shaped spreaders can be tamed somewhat by adding extra
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2745. Re: [hex-beam] Re: Anyone try building a 20-15 -10 mtr version?? KA2PBO

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-24 23:10:22 UTC
From: chris casey
Topic: 2730 Message: 2745

You made those blocks yourself? for a 5 band hex it would be... 30 blocks? a 3 band would be 18... dont think they would be too bad to make, can get plastic stock fairly easily, would guess a drill press and a band saw would be the main equipment needed...

I've pondered something like that several times, just need to take the plunge and get started.

thanks, looks great.

On 10/24/05, Colin <djcol1@...> wrote:
> Hi Chris,
>
> Like others i`ve experimented with different methods of attaching the
> elements to the spreaders.
>
> The main things are that the "clamp" is adjustable on the spreader
> (for finding the correct placement)and the wire is free to move
> through it.
>
> Ideally the clamp should be inexpensive,weatherproof and lightweight
> but still grip the spreader like a limpet :)
>
> Initially the good old hoseclamp and tube approach worked great until
> the tubes were pushed out of the cable ties,leaving the wires
> supported by the ties alone..
>
> "Plan B" used plastic blocks is shown in this picture:
>
> http://usera.imagecave.com/djcol/Hexbeam/wireelementsupports.jpg
>
> It worked very well, but unfortunately in high winds the clamps were
> unable to grip the spreader sufficiently well and slippage
> occurred,which left the elements somewhat "saggy".
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> The latest and most successful method is shown in this picture:
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> http://usera.imagecave.com/djcol/Hexbeam/elementtospreaderconnection.j
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>
> Initial positioning is achieved using temporary cable ties through
> the 2 holes.
> once found i marked the position on the spreader and drilled 2 holes
> for the 3.5mm nickel plated brass machine screws.

> These are normally used to fix power/lighting sockets to the wall
> boxes.They come in boxes of 500 and are extremely cheap from any
> electrical wholesaler (the brass nuts are ordered seperately).
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> No slippage,no corrosion ,lightweight and very inexpensive.
> Also less metal near the elements.
> Although i use 3.2mm wall fibreglass tube for my spreaders they do
> work on the thin "crappie" rods too and are probably safer than tube
> crushing hose clamps.
>
> With "crappie" rods I would use a single bolt fixing through the "one
> hole side" and a cable tie through one of the two holes to prevent
> twist..this leaves a hole for the element wire.
> In either case the dacron support lines can also use the holes in the
> clamps as attachment points.
>
> A dab of exterior silicon sealant over the screw heads and brass nuts
> keeps things like new.
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> Lots of ways to skin a cat as they say, this is the method that has
> worked very well for me.
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> > of 1/2" rod in the end, then a short stub of 1" tube over the 3/4"
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> > the base just to fit the ubolts and be a bit more robust. This was
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> > from max-gain.
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> > What are you using for your connection to the spreaders? I tried
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> > cinching down a small piece of tubing with zip ties which worked ok
> > but everything twisted and looked kinda funny, didnt seem like it
> was
> > going to work.
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> > I found at one point nylon hose clamps in a zip-tie sorta size,
> > someone was making them in Australia I think, looked like the
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> > wrong continent. Silly internet taunting.
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> > On 10/24/05, Colin <djcol1@y...> wrote:
> > > Hi Chris,
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> > > I see what you mean :)
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> > > The "S" shaped spreaders can be tamed somewhat by adding extra
> > > insulated lines across the non element spans to form complete
> > > hexagons.
> > > You do have to be really careful of the tensioning effect though.
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> > > I don`t use any hose clamps at the element connection points, as i
> > > found the tube would be pushed out of the cable tie by the side
> > > pressure of the wire.
> > > A lot depends on what material you are using for the spreaders.
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2746. Re: Anyone try building a 20-15 -10 mtr version?? KA2PBO

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-25 00:49:32 UTC
From: Colin
Topic: 2730 Message: 2746

Hi Chris,
I guess you could but it`s a lot easier to buy them :))

They are normally used to fix kitchen worktops to the cabinets
underneath.
They cost about £1.50 for 24 here in the UK.
Your local hardware shop should carry them.

73
Colin

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> > > > > > jump
> > > > > > > up and say "please dont make a monster of my creation!"
and
> > > > tell us
> > > > > > > what would be better :)
> > > > > > >
> > > > > > > good luck
> > > > > > >
> > > > > > > On 10/17/05, xbrnr <xbrnr@y...> wrote:
> > > > > > > Hi guys,
> > > > > > > I love this message board!!!Ive been following
everyones
> > > > > > projects and
> > > > > > > findings for a while now.I hope to build my own soon
but
> > have
> > > > > > only need
> > > > > > > for 20-10 mtrs ; noWARC bands.Has anyone built a tri-
> > bander

> > > > yet??
> > > > > > > >
> > > > > > > >
> > > > > > > > Thanks
> > > > > > > > Rick KA2PBO
> > > > > > > >
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2747. Re: [hex-beam] Re: Anyone try building a 20-15 -10 mtr version?? KA2PBO

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-25 02:48:21 UTC
From: chris casey
Topic: 2730 Message: 2747

its a regular thing for me to wander the hardware store with the kids
when we have time to kill, if I walk in there tomorow and have walked
by these things over and over i'm going to be embarrased.

On 10/24/05, Colin <djcol1@...> wrote:
> Hi Chris,
> I guess you could but it`s a lot easier to buy them :))
>
> They are normally used to fix kitchen worktops to the cabinets
> underneath.
> They cost about £1.50 for 24 here in the UK.
> Your local hardware shop should carry them.
>
> 73
> Colin
>
> --- In hex-beam@yahoogroups.com, chris casey <cscvrp@g...> wrote:
> >
> > You made those blocks yourself? for a 5 band hex it would be... 30
> > blocks? a 3 band would be 18... dont think they would be too bad to
> > make, can get plastic stock fairly easily, would guess a drill press
> > and a band saw would be the main equipment needed...
> >
> > I've pondered something like that several times, just need to take
> the
> > plunge and get started.
> >
> > thanks, looks great.
> >
> > On 10/24/05, Colin <djcol1@y...> wrote:
> > > Hi Chris,
> > >
> > > Like others i`ve experimented with different methods of attaching
> the
> > > elements to the spreaders.
> > >
> > > The main things are that the "clamp" is adjustable on the spreader
> > > (for finding the correct placement)and the wire is free to move
> > > through it.
> > >
> > > Ideally the clamp should be inexpensive,weatherproof and
> lightweight
> > > but still grip the spreader like a limpet :)
> > >

> > > Initially the good old hoseclamp and tube approach worked great
> until
> > > the tubes were pushed out of the cable ties,leaving the wires
> > > supported by the ties alone..
> > >
> > > "Plan B" used plastic blocks is shown in this picture:
> > >
> > > http://usera.imagecave.com/djcol/Hexbeam/wireelementsupports.jpg
> > >
> > > It worked very well, but unfortunately in high winds the clamps
> were
> > > unable to grip the spreader sufficiently well and slippage
> > > occurred,which left the elements somewhat "saggy".
> > >
> > > The latest and most successful method is shown in this picture:
> > >
> > >
> http://usera.imagecave.com/djcol/Hexbeam/elementtospreaderconnection.j
> > > pg
> > >
> > > Initial positioning is achieved using temporary cable ties through
> > > the 2 holes.
> > > once found i marked the position on the spreader and drilled 2
> holes
> > > for the 3.5mm nickel plated brass machine screws.
> > > These are normally used to fix power/lighting sockets to the wall
> > > boxes.They come in boxes of 500 and are extremely cheap from any
> > > electrical wholesaler (the brass nuts are ordered seperately).
> > >
> > > No slippage,no corrosion ,lightweight and very inexpensive.
> > > Also less metal near the elements.
> > > Although i use 3.2mm wall fibreglass tube for my spreaders they do
> > > work on the thin "crappie" rods too and are probably safer than
> tube
> > > crushing hose clamps.
> > >
> > > With "crappie" rods I would use a single bolt fixing through
> the "one
> > > hole side" and a cable tie through one of the two holes to prevent
> > > twist..this leaves a hole for the element wire.
> > > In either case the dacron support lines can also use the holes in
> the
> > > clamps as attachment points.
> > >
> > > A dab of exterior silicon sealant over the screw heads and brass
> nuts
> > > keeps things like new.
> > >
> > > Lots of ways to skin a cat as they say, this is the method that
> has

> > > worked very well for me.
> > >
> > > 73
> > > Colin M3XBM
> > >
> > > --- In hex-beam@yahoogroups.com, chris casey <cscvrp@g...> wrote:
> > > >
> > > > I'm using an 8' length of 3/4" fiberglass tube with a nested 4'
> > > piece
> > > > of 1/2" rod in the end, then a short stub of 1" tube over the
> 3/4"
> > > at
> > > > the base just to fit the ubolts and be a bit more robust. This
> was
> > > all
> > > > from max-gain.
> > > >
> > > > What are you using for your connection to the spreaders? I tried
> > > just
> > > > cinching down a small piece of tubing with zip ties which
> worked ok
> > > > but everything twisted and looked kinda funny, didnt seem like
> it
> > > was
> > > > going to work.
> > > >
> > > > I found at one point nylon hose clamps in a zip-tie sorta size,
> > > > someone was making them in Australia I think, looked like the
> > > perfect
> > > > thing but it was a "will be available soon" type thing and on
> the
> > > > wrong continent. Silly internet taunting.
> > > >
> > > >
> > > >
> > > > On 10/24/05, Colin <djcol1@y...> wrote:
> > > > > Hi Chris,
> > > > >
> > > > > I see what you mean :)
> > > > >
> > > > > The "S" shaped spreaders can be tamed somewhat by adding extra
> > > > > insulated lines across the non element spans to form complete
> > > > > hexagons.
> > > > > You do have to be really careful of the tensioning effect
> though.
> > > > >
> > > > > I don`t use any hose clamps at the element connection points,
> as i
> > > > > found the tube would be pushed out of the cable tie by the
> side

> > > > > pressure of the wire.
> > > > > A lot depends on what material you are using for the
> spreaders.
> > > > >
> > > > > 73
> > > > > Colin M3XBM
> > > > >
> > > > > --- In hex-beam@yahoogroups.com, chris casey <cscvrp@g...>
> wrote:
> > > > > >
> > > > > > Its mostly me being able to work on it in 15 minute
> increments
> > > cause
> > > > > > of my many other more important things to do like take care
> of
> > > the
> > > > > > kids or finish remodeling the bathrrom and put the toilet
> back
> > > in so
> > > > > > we can park the car in the garage. I put this thing together
> > > last
> > > > > > year
> > > > > > in time for sweepstakes phone, then took it back down to
> redo
> > > some
> > > > > > things that I didnt like how they turned out, still dont
> like
> > > my
> > > > > > element attaching to spreader scheme. center hub is too big,
> > > > > > spreaders
> > > > > > pulled into S shapes... but it seemed to work.
> > > > > >
> > > > > > Its that time again to get this thing out and put it up for
> my
> > > > > > yearly
> > > > > > contest. I put rings with a paint pen on the spreaders at
> 20cm
> > > > > > intervals to assist with eyeballing things to be sorta all
> even
> > > > > > across
> > > > > > the spreaders, have bare copper to redo the elements with,
> still
> > > > > > rethinking how to attach the elements to the spreaders.
> > > > > >
> > > > > > So in my 15 minutes at a time existance 8 pieces to cut and
> put
> > > > > > terminal ends on is fairly substantial, especially since as
> its
> > > > > > probably only up for a couple weeks I wont use those bands
> > > anyway.

> > > > > >
> > > > > > If the leaving off these out works and leaves me the option
> of
> > > > > putting
> > > > > > them in fairly easily later then I'll probably work up those
> > > > > elements
> > > > > > eventually and string them. All the mounts on the center
> mast
> > > are
> > > > > > there already so it should just be a couple lock nuts and
> > > however I
> > > > > > attach to the spreaders.
> > > > > >
> > > > > > I guess while I'm at it, how are people attaching to
> spreaders,
> > > > > short
> > > > > > of machineing something? I had ss hose clamps with zip ties
> > > holding
> > > > > > short pieces of tubing, seemed to migrate a bit as it sat
> there
> > > > > under
> > > > > > tension. I've seen essentially the same thing on some of the
> > > pics
> > > > > > section. dunnno
> > > > > >
> > > > > > Thanks
> > > > > >
> > > > > > On 10/23/05, Colin <djcol1@y...> wrote:
> > > > > > It seems that you can remove the 12m and 17m elements
> without
> > > > > > affecting performance, as long as you leave the feedline
> > > > > positions on
> > > > > > the center post at the proper spacing.
> > > > > > Imho,you may as well have all 5 bands though as the cost,
> > > weight,
> > > > > > work, and windloading of the additional 12m and 17m
> elements
> > > will
> > > > > be
> > > > > > negligable.
> > > > > >
> > > > > > 73
> > > > > > Colin M3XBM
> > > > > >
> > > > > > --- In hex-beam@yahoogroups.com, chris casey <cscvrp@g...>
> > > wrote:
> > > > > >
> > > > > > I think I'm going to just cut the 20/15/10m elements for
> > > the 5
> > > > > band

> > > > > > > > version that dl7io describes in reflectedW-design-
> en.pdf.
> > > I've
> > > > > build
> > > > > > > > the antenna once with insulated stranded copper and
> decided
> > > to
> > > > > > > > restring it with bare copper and paying better
> attention. It
> > > > > wasnt
> > > > > > > > what I had expected and the element length slop cutting
> and
> > > > > velocity
> > > > > > > > factor made a mess of things. But I would sure like to
> just
> > > do
> > > > > the
> > > > > > > > 20/15/10m elements and skip the rest. Guess if that
> doesnt
> > > work
> > > > > I'll
> > > > > > > > just cut the 17/12 and string them in, worth a shot. I
> dont
> > > see
> > > > > how
> > > > > > > > different the spacing could vastly different, lengths
> may
> > > be.
> > > > > > > >
> > > > > > > > I cant find anything about just a plan 20/15/10 in the
> files
> > > > > > section,
> > > > > > > > but I cant say its not there, just isnt jumping out at
> me.
> > > > > > > >
> > > > > > > > Maybe this will rouse someone on the list, maybe even
> dl7io
> > > will
> > > > > > jump
> > > > > > > > up and say "please dont make a monster of my creation!"
> and
> > > > > tell us
> > > > > > > > what would be better :)
> > > > > > > >
> > > > > > > > good luck
> > > > > > > >
> > > > > > > > On 10/17/05, xbrnr <xbrnr@y...> wrote:
> > > > > > > > Hi guys,
> > > > > > > > I love this message board!!!Ive been following
> everyones

> > > > > > > projects and
> > > > > > > > > > findings for a while now.I hope to build my own soon
> but
> > > have
> > > > > > > only need
> > > > > > > > > > for 20-10 mtrs ; noWARC bands.Has anyone built a tri-
> > > bander
> > > > > yet??
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > > Thanks
> > > > > > > > > > Rick KA2PBO
> > > > > > > > > >
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2748. Do anyone trye to make hex-beam for 6 meter band (new on the forum)

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-25 14:45:12 UTC
From: Palle A. Andersen
Topic: 2748 Message: 2748

I am new at this forum, so I do not know, if this has bin discussed earlyer.
Do you think a hex-beam would be good at 6 meter-band ??

I have to read for many day to se all the messages here. hehe
vy73de OZ6YM

http://www.planker.dk/oz6ym/

2749. Re: [hex-beam] Do anyone trye to make hex-beam for 6 meter band (new on the f...

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-26 01:50:52 UTC
From: bur52@aol.com
Topic: 2749 Message: 2749

I think it would work fine.
But the size of a four element yagi...I would opt for that instead. The Hex is good for me, because of it's small foot print, and five bands.
JohnB

[Non-text portions of this message have been removed]

2750. Re: Do anyone trye to make hex-beam for 6 meter band (new on the f...

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-26 14:15:25 UTC
From: Palle A. Andersen
Topic: 2749 Message: 2750

--- In hex-beam@yahoogroups.com, bur52@a... wrote:
>
> I think it would work fine.
> But the size of a four element yagi...I would opt for that instead.
The Hex
> is good for me, because of it's small foot print, and five bands.
> JohnB
>
>
> [Non-text portions of this message have been removed]
>
DR John - Thanks for ur fast reply. I will look for a beam instead.
vy73 de OZ6YM, Palle

2751. Re: [hex-beam] Re: Do anyone trye to make hex-beam for 6 meter band (new on t...

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-26 14:23:36 UTC
From: bur52@aol.com
Topic: 2751 Message: 2751

Good luck
73
johnb

[Non-text portions of this message have been removed]

2752. Re: [hex-beam] New 20 meter Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-26 18:05:27 UTC
From: bur52@aol.com
Topic: 2727 Message: 2752

Hello all

this is a little out of the real of this net.

I am looking for a Swan 500cx..or a 700cx. I am building a Swan station to compliment the Hex beam.
I would prefer a Standard cx model, but will consider a 16 special, for those that know what that is...
thanks, and 73
JohnB
kb3lxy

[Non-text portions of this message have been removed]

2753. Attaching the wire elements to the spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-26 18:49:46 UTC
From: k9ge
Topic: 2753 Message: 2753

Hi Colin:
In your description of your (latest)way to attach the elements to
the spreaders, I cannot seem to get your picture to download to show me
what it looks like. I can download the "plan B" picture showing the
white 2 piece pastic on the spreader and it looks good, but
the "latest" picture won't down load for me. Would you please send me
that picture by direct email? amd I'll head to the cabinet store.
Thanks Much - Harold - K9ge

2761. Re: [hex-beam] Attaching the wire elements to the spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-26 18:54:53 UTC
From: bur52@aol.com
Topic: 2753 Message: 2761

Somting be wrong..I am getting multiple hits on the email....!!!!!!!
JohnB

[Non-text portions of this message have been removed]

2762. Re: [hex-beam] Attaching the wire elements to the spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-26 19:08:47 UTC
From: bur52@aol.com
Topic: 2753 Message: 2762

Wow..how do we stop these???

[Non-text portions of this message have been removed]

2763. Re: Attaching the wire elements to the spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-27 02:53:00 UTC
From: Colin
Topic: 2753 Message: 2763

Hi Harold,

I think the problem lies in the length of the link.
If you copy it and add the missing letters "pg" which fall on the next
line it should be ok :)
Here is a clear closeup picture of the "assembly joint" which i used,
they should be available in most countries i guess, but possibly go
under a different name.

http://usera.imagecave.com/djcol/Hexbeam/AssemblyJoint.jpg

73
Colin M3XBM

--- In hex-beam@yahoogroups.com, "k9ge" <eg9k@a...> wrote:
>
> Hi Colin:
> In your description of your (latest)way to attach the elements to
> the spreaders, I cannot seem to get your picture to download to show
me
> what it looks like. I can download the "plan B" picture showing the
> white 2 piece pastic on the spreader and it looks good, but
> the "latest" picture won't down load for me. Would you please send me
> that picture by direct email? amd I'll head to the cabinet store.
> Thanks Much - Harold - K9ge
>

2764. re: Spacing figure in hexcalc by ei7ba

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-10-27 21:50:01 UTC
From: edmbab531
Topic: 2764 Message: 2764

```
hi
Would like to know what the spacing figure for reflector and driven
element is about.
Where does that refers to.
tnx in advance
Edmond VE9REB
ALSO ve9reb@...
```

2765. New 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-01 14:18:48 UTC
From: ah2beecamp
Topic: 2765 Message: 2765

Hi,
I just bought a new 5 bander...should be here by the middle of the week. Any inputs on how to max out its potential before I get to put it up??? any ideas or need to know before I try to get it up this weekend??? any inputs would be greatly appreciated...

Ed NT4TT Idaho Falls, Id

2766. Re: [hex-beam] New 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-03 01:34:33 UTC
From: bur52@aol.com
Topic: 2765 Message: 2766

Hi Ed

Congrats ! I think it is pretty basic. There is not much to it..other than follow the directions. Make sure that you lone up the marks on the base plate. That will effect the overall lenght of the spreaders.

I had my Hex assebbled in about an hour. Working Dx at 5-6 feet of the ground. It was on a step ladder, as I was checking the swr...I heard a DL station calling CQ on 20 meters. I keyed the mike, and answered....100 watts. He came back to me with a 5x8 report !
They work!

Traffie says that 35-40 feet is about the best height for overall performance. Any higher, it looses the ability to work short to medium skip. Take off angle is low? I am not sure that I understand that...but I have mine at 39 feet, and I have done very well with it.
Last weekend, the world wide dx contest was a good test...many pile ups busted, 600-700 watts 15-17-20 meters. It works...good luck with it.

What are you going to use to get it up in the air? Mast..tower..roof mount??
JohnB
kb3lxy

[Non-text portions of this message have been removed]

2767. Re: [hex-beam] New 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-03 03:30:25 UTC
From: Duke - NA1A
Topic: 2765 Message: 2767

Congrats on your new purchase. You will find the Hexbeam's performance to be fantastic. Just follow the instructions in the assembly manual, you won't have any problems. Do make an RF choke with 8 turns of coax and tape it just underneath the hub. This will help cutting back on any potentials RFI.
I have mine on a Tri-Ex W51 tower, cranked to about 45ft. I work the world with it and oftenly I have people telling me that I am the loudest station they hear on the band.

73,
Duke - NA1A
Website: http://NA1A.US

-- "ah2beecamp" <ah2beecamp@...> wrote:
Hi,
I just bought a new 5 bander...should be here by the middle of the week. Any inputs on how to max out its potential before I get to put it up??? any ideas or need to know before I try to get it up this weekend??? any inputs would be greatly appreciated...

Ed NT4TT Idaho Falls, Id

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SPONSORED LINKS Ferrite bead Craft hobby Hobbies and crafts Ham radio antenna Ham radio Ham radio sales <!-- |**|end egp html banner|**| --><!-- |**|begin egp html banner|**| -->
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To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com
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[Non-text portions of this message have been removed]

2768. Re: [hex-beam] New 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-03 04:28:20 UTC
From: Jason Hissong
Topic: 2765 Message: 2768

Ed,

Major congrats on your new Hexbeam! Be prepared to have a lot of fun
with it. I am looking forward to the SS contest this weekend. I will
be running QRP using the K2 and the Hexbeam. Prop it up 6 or 8 feet and
see how it works for you.

Jason N8XE

ah2beecamp wrote:

>Hi,
> I just bought a new 5 bander...should be here by the middle of the
>week. Any inputs on how to max out its potential before I get to put
>it up??? any ideas or need to know before I try to get it up this
>weekend??? any inputs would be greatly appreciated...
>
> Ed NT4TT Idaho Falls, Id
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"A long journey starts with the first step and an understanding spouse."
http://www.undermidnight.com - astronomy and astrophotography
http://www.n8xe.com - ham radio
http://www.jasonhissong.com - electronic music composition

2769. Re: [hex-beam] New 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-03 07:09:03 UTC
From: Pieter & Petro du Toit
Topic: 2765 Message: 2769

Hi ED now you have A antenna it should be good mine is only 6 meter of the ground here in New Zealand and it works well no problem enjoy it i brouth mine with from Cape Town ,South Africa it goes were i go 73 de ZL1PDT, NZ
I'm not old only enjoying the good life !!
----- Original Message -----
From: ah2beecamp
To: hex-beam@yahoogroups.com
Sent: Wednesday, November 02, 2005 3:18 AM
Subject: [hex-beam] New 5Bi

Hi,
I just bought a new 5 bander...should be here by the middle of the week. Any inputs on how to max out its potential before I get to put it up??? any ideas or need to know before I try to get it up this weekend??? any inputs would be greatly appreciated...

Ed NT4TT Idaho Falls, Id

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hex-beam-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

2770. Re: [hex-beam] New 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-03 12:57:09 UTC
From: edward campbell
Topic: 2765 Message: 2770

Hi,
Thanks for the reply...I have bought a Rohn 40' push up pole to get it up to at least 40'. By the time I do the rotor etc it will be up about 45'...so not to bad...by the way what type of rotor are you using???
I hope to be up no later than sunday depending on wx..we have several fronts going thru.I do have a large garage/shop to maybe put it together depending on how long the spreaders are.
Maybe we can chat on HF then..
73,
Ed NT4TT

bur52@... wrote:
Hi Ed

Congrats ! I think it is pretty basic. There is not much to it..other than follow the directions. Make sure that you lone up the marks on the base plate. That will effect the overall lenght of the spreaders.

I had my Hex assebbled in about an hour. Working Dx at 5-6 feet of the ground. It was on a step ladder, as I was checking the swr...I heard a DL station calling CQ on 20 meters. I keyed the mike, and answered....100 watts. He came back to me with a 5x8 report !
They work!

Traffie says that 35-40 feet is about the best height for overall performance. Any higher, it looses the ability to work short to medium skip. Take off angle is low? I am not sure that I understand that...but I have mine at 39 feet, and I have done very well with it.
Last weekend, the world wide dx contest was a good test...many pile ups busted, 600-700 watts 15-17-20 meters. It works...good luck with it.

What are you going to use to get it up in the air? Mast..tower..roof mount??
JohnB
kb3lxy

[Non-text portions of this message have been removed]

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---
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[Non-text portions of this message have been removed]

2771. Re: [hex-beam] New 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-03 13:01:01 UTC
From: edward campbell
Topic: 2765 Message: 2771

Hi,
Thanks fo rthe reply...and the advice. with the choke for clearification...all I do is use coax and do 8 turns and tape it under the hub...it is NOT inline with the coax back to the rig??
maybe I am just thick..sorry.
Hope to catch you on the air this weekend.
Ed NT4TT

Duke - NA1A <na1a@...> wrote:

Congrats on your new purchase. You will find the Hexbeam's performance to be fantastic. Just follow the instructions in the assembly manual, you won't have any problems. Do make an RF choke with 8 turns of coax and tape it just underneath the hub. This will help cutting back on any potentials RFI.
I have mine on a Tri-Ex W51 tower, cranked to about 45ft. I work the world with it and oftenly I have people telling me that I am the loudest station they hear on the band.

73,
Duke - NA1A
Website: http://NA1A.US

-- "ah2beecamp" <ah2beecamp@...> wrote:
Hi,
I just bought a new 5 bander...should be here by the middle of the week. Any inputs on how to max out its potential before I get to put it up??? any ideas or need to know before I try to get it up this weekend??? any inputs would be greatly appreciated...

Ed NT4TT Idaho Falls, Id

<!-- |**|begin egp html banner|**| -->

SPONSORED LINKS Ferrite bead Craft hobby Hobbies and crafts Ham radio antenna Ham radio Ham radio sales <!-- |**|end egp html banner|**| --><!-- |**|begin egp html banner|**| -->
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[Non-text portions of this message have been removed]

2772. Re: [hex-beam] New 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-03 13:07:01 UTC
From: edward campbell
Topic: 2765 Message: 2772

Hi,
good for you...enjoy while you can...a good friend and old qsl manager ZS2DK has been inactive and I am trying to get him back on the air...if this works well I plan to send him one..
hopefully I will catch you up and on one day..
Vy 73,
Ed now NT4TT ex AH2BE AH2BE/KH6/KH9/KH0 KB6DAW/KH2/KH6/KH9/KH0
HL9MM 8P9GI and HZ1AB

Pieter & Petro du Toit <zs1pdt@...> wrote:
Hi ED now you have A antenna it should be good mine is only 6 meter of the ground here in New Zealand and it works well no problem enjoy it i brouth mine with from Cape Town ,South Africa it goes were i go 73 de ZL1PDT, NZ
I'm not old only enjoying the good life !!
----- Original Message -----
From: ah2beecamp
To: hex-beam@yahoogroups.com
Sent: Wednesday, November 02, 2005 3:18 AM
Subject: [hex-beam] New 5Bi

Hi,
I just bought a new 5 bander...should be here by the middle of the week. Any inputs on how to max out its potential before I get to put it up??? any ideas or need to know before I try to get it up this weekend??? any inputs would be greatly appreciated...

Ed NT4TT Idaho Falls, Id

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[Non-text portions of this message have been removed]

2773. Re: [hex-beam] New 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-03 13:35:22 UTC
From: bur52@aol.com
Topic: 2765 Message: 2773

Channel master, and a didgital control here. Works perfect !
73
JohnB

[Non-text portions of this message have been removed]

2774. Re: [hex-beam] New 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-03 13:38:05 UTC
From: bur52@aol.com
Topic: 2765 Message: 2774

6 inch diameter, 6 turns in line...can be put on a piece of pvc pipe...or use the toroides that traffies sells. That is what I did...no TVI issues. Other than in my bedroom. The set is directly under the beam. I have some screen cross hatching, if i run 500 watts or better
JohnB

[Non-text portions of this message have been removed]

2775. Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-04 14:59:14 UTC
From: Harvey Mandell
Topic: 2667 Message: 2775

Holger,

This was your response I was refering to in my email of yesterday.
Thought I had lost this email.

Thanks, Harvey, WA2AAE

>
> Hello Harvey,
> thanks for the data.
> In my eyes all bands are a bit to short.
> The target is not to have as low SWR as possible.
> The SWR curve is going so that it comes down from high values very
> sharp and moves slighty on a low level before it increases again
more
> softly.
> So if you have the situation that at 14.0 MHz the SWR is very low
the
> elements are about 200-300 kHz to short. The SWR in CWportion of
the
> bands should be near 1:2 (about 1:1.8) and comes more down with
> higher frequeny. This would be better because we would have more
> gain. Remember that the hexagonal design loses 2 dB gain over the
> range of about 300 kHz.
>
> If you have a chance, please try to add about 10cm or 4in. to the
20m
> elements. In theory this should bring the SWR on 14.0 to about
1:1.8
> or 1:1.7 and give you the point with best SWR at about 14.3 MHz.
>
> If this works add about 7 cm or 2,8 in. to the 17m elements. This
may
> be a bit to much but it is easier to cut it. 4 cm might be ok here
as
> well.
>
> Where has been the 15m resonance before you cut off the 0.5 in.?
>
> 73 Holger
>
>

2776. Re: New 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-04 23:49:57 UTC
From: w4wb
Topic: 2765 Message: 2776

--- In hex-beam@yahoogroups.com, edward campbell <ah2beecamp@y...>
wrote:
>
> Hi,
> Thanks fo rthe reply...and the advice. with the choke for
clearification...all I do is use coax and do 8 turns and tape it
under the hub...it is NOT inline with the coax back to the rig??
> maybe I am just thick..sorry.
> Hope to catch you on the air this weekend.
> Ed NT4TT
>
Ed,

You will find the RF choke results better if you use ferrite beads.
See the home page for this site for more information. The coax
balun is okay, but not as good ... but do use one of the two in any
case. Have fun. My SN 80/81 has been up for about 5 years and
works great. You might wonder why I have an odd serial number.
Reason is that another chap has SN 81/80. Somehow, some of my parts
when with his antenna package and the converse with my package. No
matter, they both work just fine. hi hi

73,
Barry W4WB

2777. Re: [hex-beam] Re: New 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-05 05:45:19 UTC
From: James Balls
Topic: 2765 Message: 2777

On the subject of RF chokes,

How would I build an RF Choke for a 40m Hex

Also a choke to cover 40/80/160m ... any ideas?

Regards,

Jim M0CKE

w4wb wrote:

>--- In hex-beam@yahoogroups.com, edward campbell <ah2beecamp@y...>
>wrote:
>
>
>>Hi,
>> Thanks fo rthe reply...and the advice. with the choke for
>>
>>
>clearification...all I do is use coax and do 8 turns and tape it
>under the hub...it is NOT inline with the coax back to the rig??
>
>
>>maybe I am just thick..sorry.
>> Hope to catch you on the air this weekend.
>> Ed NT4TT
>>
>>
>>
>Ed,
>
>You will find the RF choke results better if you use ferrite beads.
>See the home page for this site for more information. The coax
>balun is okay, but not as good ... but do use one of the two in any
>case. Have fun. My SN 80/81 has been up for about 5 years and
>works great. You might wonder why I have an odd serial number.
>Reason is that another chap has SN 81/80. Somehow, some of my parts
>when with his antenna package and the converse with my package. No
>matter, they both work just fine. hi hi
>
>73,
>Barry W4WB
>
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[Non-text portions of this message have been removed]

2778. Feed Points and Spacing of Center Post

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-05 03:48:35 UTC
From: xalunt
Topic: 2778 Message: 2778

I am so confused with all the post I read about the center post and its feed points.I am homebrewing the ant and would like to know what size post is best and starting at the top 20 meter ref point whats the distance to each feed for the 5 bander? Also feeding from the top or bottom ?What size wire going inside the post is best to use for the feed?

Thankz AG8O Larry

2779. Feeder Line

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-05 23:18:51 UTC
From: Bob
Topic: 2779 Message: 2779

I was just wondering if anyone has used copper tubing for the feeder lines. I have been trying to figure a good feeder sys and this is what I have come up with . Thanks for your time Bob N8AEP

2780. Re: New 5Bi

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-06 16:46:25 UTC
From: w4wb
Topic: 2765 Message: 2780

Jim,

For my 40-30 m Hex-Beam (bottom fed), I use 12 FB-77-1024 beads on the coax just blow the hub. Worked fine for me.

As you go lower in freq, you need more stuff ... beads or coax. Look in the files (see home page too) for info on coax balun.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, James Balls <jim@m...> wrote:
>
> On the subject of RF chokes,
>
> How would I build an RF Choke for a 40m Hex
>
> Also a choke to cover 40/80/160m ... any ideas?
>
> Regards,
>
> Jim M0CKE

2781. Re: Feed Points and Spacing of Center Post

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-07 04:28:52 UTC
From: n3gnw
Topic: 2778 Message: 2781

Well I finally started building mine. I need something for CQ WW CW at the end of the month.

I picked up 10 feet of 6 AWG stranded wire for the feed lines. I am going to use external feed up the side of the wooden closet rod.

Search for DL7IO's web site. He has a lot of information including the feed points. Its all metric but easy to convert.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "xalunt" <ag8o1@p...> wrote:
>
>
> I am so confused with all the post I read about the center post and its feed points.I am homebrewing the ant and would like to know what size post is best and starting at the top 20 meter ref point whats the distance to each feed for the 5 bander? Also feeding from the top or bottom ?What size wire going inside the post is best to use for the feed?
>
> Thankz AG8O Larry
>

2782. Re: [hex-beam] Re: Feed Points and Spacing of Center Post

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-07 16:59:28 UTC
From: Hello
Topic: 2778 Message: 2782

thankz for info and let me know how you make out ..i am also thinking of feeding them seperate with realy switching but not quite sure Larry
----- Original Message -----
From: n3gnw
To: hex-beam@yahoogroups.com
Sent: Sunday, November 06, 2005 8:28 PM
Subject: [hex-beam] Re: Feed Points and Spacing of Center Post

Well I finally started building mine. I need something for CQ WW CW at the end of the month.

I picked up 10 feet of 6 AWG stranded wire for the feed lines. I am going to use external feed up the side of the wooden closet rod.

Search for DL7IO's web site. He has a lot of information including the feed points. Its all metric but easy to convert.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "xalunt" <ag8o1@p...> wrote:
>
>
> I am so confused with all the post I read about the center post and its feed points.I am homebrewing the ant and would like to know what size post is best and starting at the top 20 meter ref point whats the distance to each feed for the 5 bander? Also feeding from the top or bottom ?What size wire going inside the post is best to use for the feed?
>
> Thankz AG8O Larry
>

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Checked by AVG Free Edition.
Version: 7.1.362 / Virus Database: 267.12.8/162 - Release Date: 11/5/2005

[Non-text portions of this message have been removed]

2783. Re: Feeder Line

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-07 19:54:07 UTC
From: n3gnw
Topic: 2779 Message: 2783

Funny, my neighbor down the street from me (also a ham) suggested the same thing. It should be doable, just got to keep them from shorting out.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "Bob" <palaquin@a...> wrote:
>
> I was just wondering if anyone has used copper tubing for the feeder
> lines. I have been trying to figure a good feeder sys and this is
what
> I have come up with . Thanks for your time Bob N8AEP
>

2784. Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-08 14:34:25 UTC
From: dl7io
Topic: 2667 Message: 2784

Hello Harvey,
sorry for the delay but I have no access to my e-mail box. I'm
currently in New York but will be back home next week.
73 Holger

2785. Re: [hex-beam] Feeder Line

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-08 19:36:57 UTC
From: WolfTilch@aol.com
Topic: 2779 Message: 2785

Hello,
I finished my 2nd Hex Beam. Now 20, 17, 15 and 12m.
This time I used brass tubing, diameter 6mm, for the feeder line between the elements. I soldered the wire elements directly to the brass feeder. Got excellent matching on all 4 bands. I'm feeding from the top, connecting a current balun to the feeding point at the center post. Only slight difference when feeding from the bottom. Had to retune all the elements, of course.
All comments, including DL7IO, are showing the balun below the center hub!
Following this, gave me bad matching on 20m and 17m.
Best 73s
Wolfgang, DL2XC

[Non-text portions of this message have been removed]

2786. some questions before I start

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-08 15:56:28 UTC
From: Bill
Topic: 2786 Message: 2786

Hello to all

This is my 1st post on this one, I want to clarify a couple of things before I start my antenna

I am going to try and build a 17meter Hex Beam, possilby throw in 12 too. I think I have all the formulas and concepts down,

6180/Freq in Mhz/12 = drv ele in feet

6262 by same reflector in feet

102/Freq driven tip space in inches

65/Freq ref tip space in inches

145/Freq total tip space inches

Now for the elements, I just divide the elements total lengths by 4 and that is the side lengths of the triangles on the elements? Excuse me if I use the wrong terms,

Just what kind of 2 to 1 bandwidth does this antenna have over the bands? Would one have a decent bandwidth on a lower freq like 7mhz?

What's the best way for adjusting the total tip space dead on the money? With the twine on the front and back spreaders or just how is that done best?

Also for a dual band for 12 and 17 can it be feed at a single feed point or is there another matching system required?

Also any tips on the best spreader material and where it can be located would be appreciated

73

Bill W4VD

2787. How much extra wire

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-10 18:07:56 UTC
From: n3gnw
Topic: 2787 Message: 2787

Moving forward on the construction. Should have the center feed post done tonight.

Any suggestions on how much longer I should cut the wires for the elements to allow for tuning? I'm thinking three (3) inches (about 7.5 centimeters).

73,
Mark N3GNW

2788. Re: [hex-beam] How much extra wire

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-10 19:26:51 UTC
From: bur52@aol.com
Topic: 2787 Message: 2788

maybe 4? Just to be sure.
Wouldn't hurt any.

73
JohnB
kb3lxy

[Non-text portions of this message have been removed]

2789. hex 40-30-20

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-10 16:16:20 UTC
From: on8va
Topic: 2789 Message: 2789

Hoi to all,
how long has the spreaders to be for a hex 40-30-30 meterband.
i did find most info on the site of Holger Dl7IO but not the info of the spreaders.
Many thanks for teh info.
73' Chris -ON8VA

2790. Re: hex 40-30-20

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-11 09:41:28 UTC
From: on6ec
Topic: 2789 Message: 2790

Hi Chris,
For 40 mtr (30-20) you need 6 mtr length for one spreader. The total antenna diameter will be about 12 mtrs.
Regards.
ON6EC Ed

In hex-beam@yahoogroups.com, "on8va" <christiaan.van.aert@s...> wrote:
>
> Hoi to all,
> how long has the spreaders to be for a hex 40-30-30 meterband.
> i did find most info on the site of Holger Dl7IO but not the info of
> the spreaders.
> Many thanks for teh info.
> 73' Chris -ON8VA
>

2791. Re: Spacing figure in hexcalc by ei7ba

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-13 02:04:49 UTC
From: ve7jav
Topic: 2764 Message: 2791

Hi, Edmond-
As I understand it, this is the distance between the end of the (wire) element and the centerline of the antenna (the two spreaders which are between the two "W" shapes of the driven and reflector elements).

If you check page 11 of DL7IO's article there is a good picture showing this...
http://www.dl7io.de/reflectedw/files/reflectedW-design-en.pdf

73
John

--- In hex-beam@yahoogroups.com, "edmbab531" <edmbab@n...> wrote:
>
> hi
> Would like to know what the spacing figure for reflector and driven
> element is about.
> Where does that refers to.
> tnx in advance
> Edmond VE9REB
> ALSO ve9reb@r...
>

2792. Re: [hex-beam] Re: Spacing figure in hexcalc by ei7ba

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-14 01:07:31 UTC
From: EDMOND R.BABINEAU
Topic: 2764 Message: 2792

HI JOHN
I FOUND THAT AFTER I WROTE THE MESSAGE.
THE OTHER QUESTION IS DISTANCE AT THE CENTER BETWEEN DRIVEN AND
REFLECTOR.
THANKS JOHN

----- Original Message -----
From: "ve7jav" <j_r_abercrombie@...>
To: <hex-beam@yahoogroups.com>
Sent: Saturday, November 12, 2005 10:04 PM
Subject: [hex-beam] Re: Spacing figure in hexcalc by ei7ba

> Hi, Edmond-
> As I understand it, this is the distance between the end of the
> (wire) element and the centerline of the antenna (the two spreaders
> which are between the two "W" shapes of the driven and reflector
> elements).
>
> If you check page 11 of DL7IO's article there is a good picture
> showing this...
> http://www.dl7io.de/reflectedw/files/reflectedW-design-en.pdf
>
> 73
> John
>
> --- In hex-beam@yahoogroups.com, "edmbab531" <edmbab@n...> wrote:
>>
>> hi
>> Would like to know what the spacing figure for reflector and
> driven
>> element is about.
>> Where does that refers to.
>> tnx in advance
>> Edmond VE9REB
>> ALSO ve9reb@r...
>>
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> Yahoo! Groups Links
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> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.362 / Virus Database: 267.12.8/166 - Release Date: 11/10/2005
>

2793. Re: Spacing figure in hexcalc by ei7ba

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-16 13:07:47 UTC
From: Colin
Topic: 2764 Message: 2793

Hi Edmond,

I personally use 40mm pvc tube for the center post but the brass bolt heads inside the tube are perhaps 20mm (.75") apart on the inside.

Others have gone as low as 12mm (0.5") spacing between ref and driven centers and had good results, so i guess anything in the ballpark would be ok.

73
Colin M3XBM

--- In hex-beam@yahoogroups.com, "EDMOND R.BABINEAU" <edmbab@n...>
wrote:
>
> HI JOHN
> I FOUND THAT AFTER I WROTE THE MESSAGE.
> THE OTHER QUESTION IS DISTANCE AT THE CENTER BETWEEN DRIVEN
AND
> REFLECTOR.
> THANKS JOHN
>
>
> ----- Original Message -----
> From: "ve7jav" <j_r_abercrombie@y...>
> To: <hex-beam@yahoogroups.com>
> Sent: Saturday, November 12, 2005 10:04 PM
> Subject: [hex-beam] Re: Spacing figure in hexcalc by ei7ba
>
>
> > Hi, Edmond-
> > As I understand it, this is the distance between the end of the
> > (wire) element and the centerline of the antenna (the two
spreaders
> > which are between the two "W" shapes of the driven and reflector
> > elements).
> >
> > If you check page 11 of DL7IO's article there is a good picture
> > showing this...
> > http://www.dl7io.de/reflectedw/files/reflectedW-design-en.pdf
> >
> > 73
> > John
> >
> > --- In hex-beam@yahoogroups.com, "edmbab531" <edmbab@n...> wrote:
> >>

> >> hi
> >> Would like to know what the spacing figure for reflector and
> > driven
> >> element is about.
> >> Where does that refers to.
> >> tnx in advance
> >> Edmond VE9REB
> >> ALSO ve9reb@r...
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> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.362 / Virus Database: 267.12.8/166 - Release Date:
11/10/2005
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2794. My first Hexbeam...

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-18 05:09:52 UTC
From: wb8yqj
Topic: 2794 Message: 2794

Hi Guys,

I am replacing my 2 element 15m Moxon (at 30 feet) with the 7 pound monoband version of the Hexbeam from Traffie. The Moxon is mounted on a 3 element Cushcraft 10-3CD frame and yes, both antennas work. It's been a great setup here.

But conditions are in decline and I need to put something for 20 meters atop the push up mast, the Hexbeam is light and won't take up any more space than the old antennas on my single support here in "condoville".

I'm expecting performance similar to a 2 element yagi at the same height. That should really be an improvement over the GAP Eagle here, my current 20m antenna. That one is ground mounted and equivalent to a dipole at 30 feet in my A/B tests.

My question is, how much room do I need to put this thing together, how simple or complicated, and suggestions on a 100 foot run of RG8X as compared to RG8. Running 100watts here. And how critical is a toroid at the feedpoint? Traffie is sending me one of the size that would accomodate RG8X but now I'm waffling on the feed type. ;-)

I am trying to keep the weight to a minimum, because as the push up mast goes up, the guys are loose - I am afraid that one of these times... disaster. The weight of RG8 is a consideration.

At present I have about 11 lbs of aluminum plus an Archer rotor and only a light wood patio lathe to bolt the bottom section to. That's too much, so I'm happy to be reducing that weight.

Any comments at all about the hex in operation or the construction of this Traffie version would be appreciated. I have a box coming on Monday, but very little idea what's inside.

Thanks,
Don Rasmussen WB8YQJ/6
Carlsbad, Ca.
wb8yqj at Yahoo.com

2795. Re: [hex-beam] My first Hexbeam...

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-18 13:53:57 UTC
From: we1x@comcast.net
Topic: 2794 Message: 2795

Don,

I've been using the 5 band Hexbeam for going on 5 years now. My config is the beam on a 30 foot push up mast (Traffie's HDX) guyed at 2 levels using 3/16" rope. Rotator at the bottom of the mast about 2" above ground. Rotator turns mast and antenna. I use about 40' or RG8-x to a run of low loss RG-8 on the ground. My take is the weight of RG8 to the beam is far too heavy.

Assembly of the 5 band hex took a couple of hours and as I recall a 15 x 15 work area was adequate. A mono-band hex should be less involved.

I have had no need for torroids or chokes of any kind.

The whole arrangement works fine and quite happy with it.

Hope this helps,

Harry WE1X

---------- Original message ----------

> Hi Guys,
>
> I am replacing my 2 element 15m Moxon (at 30 feet) with the 7 pound
> monoband version of the Hexbeam from Traffie. The Moxon is mounted on
> a 3 element Cushcraft 10-3CD frame and yes, both antennas work. It's
> been a great setup here.
>
> But conditions are in decline and I need to put something for 20
> meters atop the push up mast, the Hexbeam is light and won't take up
> any more space than the old antennas on my single support here
> in "condoville".
>
> I'm expecting performance similar to a 2 element yagi at the same
> height. That should really be an improvement over the GAP Eagle here,
> my current 20m antenna. That one is ground mounted and equivalent to
> a dipole at 30 feet in my A/B tests.
>
> My question is, how much room do I need to put this thing together,
> how simple or complicated, and suggestions on a 100 foot run of RG8X
> as compared to RG8. Running 100watts here. And how critical is a
> toroid at the feedpoint? Traffie is sending me one of the size that
> would accomodate RG8X but now I'm waffling on the feed type. ;-)
>
> I am trying to keep the weight to a minimum, because as the push up
> mast goes up, the guys are loose - I am afraid that one of these
> times... disaster. The weight of RG8 is a consideration.

>
> At present I have about 11 lbs of aluminum plus an Archer rotor and
> only a light wood patio lathe to bolt the bottom section to. That's
> too much, so I'm happy to be reducing that weight.
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> Any comments at all about the hex in operation or the construction of
> this Traffie version would be appreciated. I have a box coming on
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> Thanks,
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> Carlsbad, Ca.
> wb8yqj at Yahoo.com
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[Non-text portions of this message have been removed]

2796. home made ugly hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-19 13:46:25 UTC
From: hambeemer
Topic: 2796 Message: 2796

Figured I had better send a note in regard to my hex. First though thanks to all who throw out their ideas giving Us on the fringes something to work with!
The hex antenna I made is setup for 20, 15, and 6 meters. I have it up on a small pipe tower. Maybe 20 feet up. SWR is flat on 15 and 6. 20 though its 1.2 to 1.4 which is OK with me.
Made it with fiberglass poles, however the length wasn't 10 feet so I had some smaller diameter fiberglass sticks. 3 of these fit nicely within the 1 inch diameter pole. I admit the thing looks wierd with these 3 prongs sticking out on 6 poles. Used stranded house wire #12 and left the white casing intact. The mast is PVC. Used coax ground strap as the connection for the 3 bands. Attached to the pvc with sheetrock screws.
Covered the coax with white liquid rubber.
Next step is to take it down and add a rotor.

take care, antenna work gets done lots quicker when the cold and snow shows up... take it easy if you're working off the ground some.

hambeemer

2797. Newbie questions.

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-21 02:07:06 UTC
From: Tom Morris
Topic: 2797 Message: 2797

Hello. I came across some info on the hex-beam antenna online, and am quite interested in building a couple for HF, VHF and UHF operation. (I'd like to start out with monoband hex-beams, possibly making some multiband designs later.) I'm quite impressed with how small these are, thanks to the folded elements!

I found the dimension calculator online, but I'm not really sure which spacing goes where. Are there any diagrams that have this nicely laid out as to how the elements are to be arranged?

- Tom Morris, KG4CYX

2798. Hexbeam... Cut the coax?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-23 05:41:30 UTC
From: wb8yqj
Topic: 2794 Message: 2798

Hi Guys,

The Hexbeam HXL-20 project starts tomorrow. Hurray! But I have a decision to make.

I have 100 feet of RG8X with silver connectors on each end. Traffie sent me a Type 77 toroid that's supposed to take 3 loops at 5 inch diameter.

I have to cut the coax and solder a connector to make that work. I don't have a butane torch and trust the factory fittings but have, in the past, put the big Weller 140 Watt gun to work.

Can anyone suggest the practical aspects of having or not having that coaxial balun in the line for the 20 meter monobander?

Any effects on forward gain, front to back, or otherwise at 100 watts?

Thanks in advance,
Don Rasmussen
Carlsbad, Ca.

--- In hex-beam@yahoogroups.com, "wb8yqj" <wb8yqj@y...> wrote:
>
> Hi Guys,
>
> I am replacing my 2 element 15m Moxon (at 30 feet) with the 7 pound
> monoband version of the Hexbeam from Traffie. The Moxon is mounted

2799. Re: [hex-beam] Hexbeam... Cut the coax?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-23 05:45:21 UTC
From: bur52@aol.com
Topic: 2794 Message: 2799

I had a machine shop cut the toroids in half...and wraped each one with some electrical tape.
It seems to work..no ill effects > All said and done...mighta been quicker to cut the coax! I am using rg-8-u

73
JohnB
kb3lxy

[Non-text portions of this message have been removed]

2800. Hexbeam... Cut the coax?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-23 15:03:35 UTC
From: Duke - NA1A
Topic: 2794 Message: 2800

If anyone needs snap-on toroids to make balun for the HexBeam (or anything else), I got about 500 of these available. They fit perfectly over the RG-8 or 9913 size coax. I also have several thousand of the smaller snap on toroids that fit over the RG-59 or standard TV coax cable. These toroids work fantastic in suppressing RFI. I use both extensively here at my shack and RFI proof.
E-mail me direct for more info:
NA1A@...

73,
Duke - NA1A

-- bur52@... wrote:
I had a machine shop cut the toroids in half...and wraped each one with some electrical tape.
It seems to work..no ill effects > All said and done...mighta been quicker to cut the coax! I am using rg-8-u

73
JohnB
kb3lxy

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2801. Traffie Hex - like a vacation.

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-24 05:20:43 UTC
From: wb8yqj
Topic: 2801 Message: 2801

Hi Guys,

I build my antennas with very few exceptions.

I took a chance about 5 years back and paid $400 for a Mosely mini tribander that is now rusting on the ground in my back yard.

But this HXL-20 is just like a vacation, that's the only way I can put it. Been a ham for 30 years and never had a 20m gain antenna for size and tower reasons.

This antenna "snaps" together and is light enough to carry up a ladder over your head with one hand - which is what I did. Put it on a push up mast, no problem.

I put mine at 35 feet and it acts like a true yagi - a strong performer.

I'll be spending some time in the hamshack this Thanksgiving. ;-)

I did split the coax, installed the ferrite, and found a trick I like for the PL-259 and reducer on the internet. Just use some fine sandpaper from the front of the reducer back to the threads and tin lightly with your Weller gun or high watt iron. Slip the coax in, fold the braid over, and heat it until it wicks up the solder underneath in 4 or 5 spots. Screw on the PL-259 (you may need to cut or file away some braid) then fill the solder holes (quickly). Solder the center conductor as usual.

Worked like a charm here, good braid contact without subjecting the entire connector to loads of heat.

73,
de wb8yqj
Don - Carlsbad, Ca.

2802. Re: Hexbeam... Cut the coax?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-24 20:08:02 UTC
From: w4wb
Topic: 2794 Message: 2802

Duke,

What type ferrite material are these please?

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Duke - NA1A" <na1a@n...> wrote:
>
>
> If anyone needs snap-on toroids to make balun for the HexBeam (or
anything else), I got about 500 of these available. They fit
perfectly over the RG-8 or 9913 size coax. I also have several
thousand of the smaller snap on toroids that fit over the RG-59 or
standard TV coax cable. These toroids work fantastic in suppressing
RFI. I use both extensively here at my shack and RFI proof.
> E-mail me direct for more info:
> NA1A@N...
>
> 73,
> Duke - NA1A
>
>
> -- bur52@a... wrote:
> I had a machine shop cut the toroids in half...and wraped each one
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> electrical tape.
> It seems to work..no ill effects > All said and done...mighta
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> to cut the coax! I am using rg-8-u
>
> 73
> JohnB
> kb3lxy
>
>
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2803. Re: Hexbeam... Cut the coax?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-24 20:09:31 UTC
From: w4wb
Topic: 2794 Message: 2803

Put the ferrites on the coax. The purpose is to mitigate common-
mode current on the exterior of the coax shield.
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "wb8yqj" <wb8yqj@y...> wrote:
>
> Hi Guys,
>
> The Hexbeam HXL-20 project starts tomorrow. Hurray! But I have a
> decision to make.
>
> I have 100 feet of RG8X with silver connectors on each end.
Traffie
> sent me a Type 77 toroid that's supposed to take 3 loops at 5 inch
> diameter.
>
> I have to cut the coax and solder a connector to make that work. I
> don't have a butane torch and trust the factory fittings but have,
in
> the past, put the big Weller 140 Watt gun to work.
>
> Can anyone suggest the practical aspects of having or not having
that
> coaxial balun in the line for the 20 meter monobander?
>
> Any effects on forward gain, front to back, or otherwise at 100
watts?
>
> Thanks in advance,
> Don Rasmussen
> Carlsbad, Ca.
>
>
> --- In hex-beam@yahoogroups.com, "wb8yqj" <wb8yqj@y...> wrote:
> >
> > Hi Guys,
> >
> > I am replacing my 2 element 15m Moxon (at 30 feet) with the 7
pound
> > monoband version of the Hexbeam from Traffie. The Moxon is
mounted
>

2804. Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-24 21:10:35 UTC
From: n3gnw
Topic: 2804 Message: 2804

I've been quiet here (and just about everywhere else on the net) since I said I was building a 5 bander.

I got it together last Sunday (about 36 hours total work) but it didn't load on any band. Checking with an ohmmeter showed a dead short in the parallel feed line. I was going crazy trying to figure out where the problem was and not having any daylight after work. Finally my neighbor wondered if the screweyes I used could be shorting together in the mast. And that was it.

Once I unshorted them and fired it up, it loaded nicely on 20 - 15. I adjusted 20 and it is now flat across the band as is 17. 15's SWR is a little high at the top end of the band. 12 is resonent out of band and 10 is narrow but that could be due to the metal frame of the picnic table its on.

I'll try to finish tweaking it this evening and get it up on a 20 foot mast tomorrow for the contest this weekend. Hopefully, I'll find the digital camara and get some pictures.

This has been built as a temporary antenna with PVC electrical conduit as spreaders and a prototype but if it plays out I'm definitely looking at a official Traffie version. The PVC does take on some interesting shapes.

Thanks to everyone for there info and pictures of their antennas. This is the most major thing I have built from the ground up in ham radio.

73,
Mark N3GNW

2805. Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-25 14:38:39 UTC
From: dl7io
Topic: 2804 Message: 2805

Hello Mark,
congrats on this.
It is not the easiest project to start with.
Is the top end the CW portion around 21.000 kHz?
Than the wires are probably a bit to short.

Hope to catch you in the test.
We will be DP9A (multi/multi).
I will be running 40m with 2 x 2 element beams at 2 towers in 20m &
17m height. One is a hex and the other a 2 element yagi.
The high bands have beams with a few more elements.

73 Holger, DL7IO

--- In hex-beam@yahoogroups.com, "n3gnw" <n3gnw@a...> wrote:
>
> I've been quiet here (and just about everywhere else on the net)
> since I said I was building a 5 bander.
>
> I got it together last Sunday (about 36 hours total work) but it
> didn't load on any band. Checking with an ohmmeter showed a dead
> short in the parallel feed line. I was going crazy trying to figure
> out where the problem was and not having any daylight after work.
> Finally my neighbor wondered if the screweyes I used could be
> shorting together in the mast. And that was it.
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> Once I unshorted them and fired it up, it loaded nicely on 20 -
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> foot mast tomorrow for the contest this weekend. Hopefully, I'll
> find the digital camara and get some pictures.
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> This has been built as a temporary antenna with PVC electrical
> conduit as spreaders and a prototype but if it plays out I'm
> definitely looking at a official Traffie version. The PVC does
take
> on some interesting shapes.
>
> Thanks to everyone for there info and pictures of their antennas.

> This is the most major thing I have built from the ground up in ham
> radio.
>
> 73,
> Mark N3GNW
>

2806. Toroids

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-25 16:20:45 UTC
From: Duke - NA1A
Topic: 2806 Message: 2806

Hi Barry,
Not sure of the exact mix nature, but they work extremely good for RFI suppressing. I believe they are mix 77. I use them here in the shack and out on the feedline to the antenna, use them on stereo speaker, telephone, alarm systems, you name it. It knocked all the RFI dead. I can run full legal limit now without any RFI situation.
I can send some pictures of them if you're interested.

73,
Duke - NA1A
Website: http://NA1A.US

-- "w4wb" <w4wb@...> wrote:
Duke,

What type ferrite material are these please?

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Duke - NA1A" <na1a@n...> wrote:
>
>
> If anyone needs snap-on toroids to make balun for the HexBeam (or anything else), I got about 500 of these available. They fit perfectly over the RG-8 or 9913 size coax. I also have several thousand of the smaller snap on toroids that fit over the RG-59 or standard TV coax cable. These toroids work fantastic in suppressing RFI. I use both extensively here at my shack and RFI proof.
> E-mail me direct for more info:
> NA1A@N...
>
> 73,
> Duke - NA1A
>
>
> -- bur52@a... wrote:
> I had a machine shop cut the toroids in half...and wraped each one with some
> electrical tape.
> It seems to work..no ill effects > All said and done...mighta been quicker
> to cut the coax! I am using rg-8-u
>
> 73
> JohnB
> kb3lxy

>
>
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[Non-text portions of this message have been removed]

2807. Re: [hex-beam] Toroids

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-25 16:31:26 UTC
From: bur52@aol.com
Topic: 2806 Message: 2807

Hi Duke
Are these the clip on type?

thanks
JohnB
KB3lxy

[Non-text portions of this message have been removed]

2808. Re: [hex-beam] Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-25 13:51:22 UTC
From: tim lindstrom
Topic: 2804 Message: 2808

Hey Mark,
Same here.. hehe. Learn more from others asking than if I send out a plea! The Hex I made is 20,15 and 6 meters. 15 and 6 the SWR is flat across the bands. Cool! Had some troubles with 20. And someday I would like to find the MFJ 259 so climbing a ladder would be less! I did get the SWR to drop to 1.2 to 1.4 on 20.
Neat antenna though. Even the neighbor is impressed! Wanted to know if I could hear airplanes...

tim, ab0ts alias hambeemer...

n3gnw <n3gnw@...> wrote:
I've been quiet here (and just about everywhere else on the net)
since I said I was building a 5 bander.

I got it together last Sunday (about 36 hours total work) but it
didn't load on any band. Checking with an ohmmeter showed a dead
short in the parallel feed line. I was going crazy trying to figure
out where the problem was and not having any daylight after work.
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shorting together in the mast. And that was it.

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foot mast tomorrow for the contest this weekend. Hopefully, I'll
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conduit as spreaders and a prototype but if it plays out I'm
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Thanks to everyone for there info and pictures of their antennas.
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73,
Mark N3GNW

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2809. Re: Toroids

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-25 17:34:41 UTC
From: w4wb
Topic: 2806 Message: 2809

Hi Duke,

Thanks. I have not seen split Type 77 beads offered, just the Type 43. 43 can work to some degree, but not nearly as well as 77 particularly on 20 and 17 m (not to mention 40 m). Pse do drop me a photo if not much trouble.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Duke - NA1A" <na1a@n...> wrote:
>
> Hi Barry,
> Not sure of the exact mix nature, but they work extremely good for RFI suppressing. I believe they are mix 77. I use them here in the shack and out on the feedline to the antenna, use them on stereo speaker, telephone, alarm systems, you name it. It knocked all the RFI dead. I can run full legal limit now without any RFI situation.
> I can send some pictures of them if you're interested.
>
> 73,
> Duke - NA1A
> Website: http://NA1A.US
>
> -- "w4wb" <w4wb@a...> wrote:
> Duke,
>
> What type ferrite material are these please?
>
> 73,
> Barry W4WB
>
> --- In hex-beam@yahoogroups.com, "Duke - NA1A" <na1a@n...> wrote:
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> >
> > If anyone needs snap-on toroids to make balun for the HexBeam (or
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> > 73,
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> > I had a machine shop cut the toroids in half...and wraped each
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> <!-- |**|end egp html banner|**| -->
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> [Non-text portions of this message have been removed]
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2810. Re: SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-26 14:22:31 UTC
From: Harvey Mandell
Topic: 2667 Message: 2810

Holger,
While you were in New York I had sent you an email questioning how lengthinging the elements would raise the resonant frequncy of the antenna, as suggested in your email below. Shouldn't this lower the resonant frequency?

Hope you had a good time in NYC. I live about 70KM east of the city on Long Island. Thanks.

Harvey, WA2AAE

>
> Hello Harvey,
> thanks for the data.
> In my eyes all bands are a bit to short.
> The target is not to have as low SWR as possible.
> The SWR curve is going so that it comes down from high values very
> sharp and moves slighty on a low level before it increases again more
> softly.
> So if you have the situation that at 14.0 MHz the SWR is very low the
> elements are about 200-300 kHz to short. The SWR in CWportion of the
> bands should be near 1:2 (about 1:1.8) and comes more down with
> higher frequeny. This would be better because we would have more
> gain. Remember that the hexagonal design loses 2 dB gain over the
> range of about 300 kHz.
>
> If you have a chance, please try to add about 10cm or 4in. to the 20m
> elements. In theory this should bring the SWR on 14.0 to about 1:1.8
> or 1:1.7 and give you the point with best SWR at about 14.3 MHz.
>
> If this works add about 7 cm or 2,8 in. to the 17m elements. This may
> be a bit to much but it is easier to cut it. 4 cm might be ok here as
> well.
>
> Where has been the 15m resonance before you cut off the 0.5 in.?
>
> 73 Holger
>
> --- In hex-beam@yahoogroups.com, Harvey Mandell <wa2aae@y...> wrote:

> > Hi Holger,
> >
> > I retuned the 15M element slightly (shortened about
> > 0.5 inch) to get the 15M swr down. Values on three
> > bands are: 20M (14 1.0, 14.4 1.2), 17M (18 1.5, 18.2
> > 2.0), 15M (21 1.5, 21.4 1.5). These measurements with
> > antenna at 15 feet and about a 30 foot feedline.
> >
> > Thanks again.
> >
> > Harvey, WA2AAE
> >
> > --- dl7io <dl7io@q...> wrote:
> >
> > > Harvey,
> > > the SWR should not change significant. Give me some
> > > values at this
> > > height as well please.
> > > 73 Holger
> > >
> > > --- In hex-beam@yahoogroups.com, Harvey Mandell
> > > <wa2aae@y...> wrote:
> > > > I'd be glad to Holger. Right now the antenna is
> > > only
> > > > about 15 feet in the air. I thought that the 15M
> > > SWR,
> > > > which is good at 21MHZ but higher as I go up in
> > > > frequency would improve as I raised the antenna.
> > > It
> > > > did not so I need to just retune 15M slightly.Do
> > > you
> > > > want the SWR values at this height or do you want
> > > to
> > > > wait until I raise it into a higher location?
> > > >
> > > > Harvey, WA2AAE
> > > >
> > > > --- dl7io <dl7io@q...> wrote:
> > > >
> > > > > Harvey,
> > > > > good to hear everything is working.
> > > > > Can you please send me some SWR values (3-4 for
> > > > > every band) together
> > > > > with info on height and coax length?
> > > > > TNX Holger
> > > > >
> > > > >
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2811. Hello again

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-26 20:39:47 UTC
From: John
Topic: 2811 Message: 2811

Hello Hexbeambuilders,
Its long ago I posted on this site; busy job and
family-pericles keeps me off posting. In feature I will looking more
again. Wanna let you know Im also busy making a website of my radio-
hobby with Hexbeam-pages how I build my first one and assembling my
second one with glasfibres-fishingpoles, but went wrong. Till my site
is uploaded you can look in my photo-album at yahoo to see my step by
step building of this antenne wich has giving me lots of DX. THe URL
from this photoalbum is:

http://pg.photos.yahoo.com/ph/johndeilander/my_photos

Hope you have info enough to build this fabalous antenna.

Best 73's de Jan PA2JJB

2812. Re: [hex-beam] Hello again

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-27 04:45:14 UTC
From: atul chaudhari
Topic: 2811 Message: 2812

Hey John thank you for the link. It is very useful for
any new beee to decide and start building a new
antenna like the one you have built.

--- John <johndeilander@...> wrote:

> Hello Hexbeambuilders,
> Its long ago I posted on this
> site; busy job and
> family-pericles keeps me off posting. In feature I
> will looking more
> again. Wanna let you know Im also busy making a
> website of my radio-
> hobby with Hexbeam-pages how I build my first one
> and assembling my
> second one with glasfibres-fishingpoles, but went
> wrong. Till my site
> is uploaded you can look in my photo-album at yahoo
> to see my step by
> step building of this antenne wich has giving me
> lots of DX. THe URL
> from this photoalbum is:
>
>
http://pg.photos.yahoo.com/ph/johndeilander/my_photos
>
> Hope you have info enough to build this fabalous
> antenna.
>
> Best 73's de Jan PA2JJB
>
>
>
>
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>

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2813. Traffie Hexbeam - durability question...

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-28 05:56:57 UTC
From: wb8yqj
Topic: 2813 Message: 2813

Hi Guys,

The HXL-20 (lightweight 20m) antenna was awesome this weekend for the CQ WWDX CW, Europe has been very difficult from SoCal using the GAP vertical but the 20m version of the Hex allowed me to work even the EU stations that seemed weak on receive - not so with the GAP. 5db is alot when you are frequently operating on the margin.

There is some string used on this antenna. Having removed the previous antenna after 2.5 years and seeing what the sun damage did to the tie wraps, tape, and coax, it made me wonder about the string on the new antenna.

Anyone else have this antenna up for a couple years or more without needing to restring it?

Thanks in advance,
Don WB8YQJ/6
Carlsbad, Ca.

2814. Re: Traffie Hexbeam - durability question...

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-28 12:56:31 UTC
From: n3gnw
Topic: 2813 Message: 2814

I think Traffie uses Dacron which has excellent sunlight resistance and low stretch. I used nylon in mine but that will change as I move toward a more permenant version.

An old Cushcraft R7 I have used plastic cable clamps to stabilize the capacitor rods. After 7 years outside, they are very brittle. Newer versions now use custom machined blocks (Delrin possibly but I'm not sure).

It does pay to start replace the UV damaged elements before things really fall apart.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "wb8yqj" <wb8yqj@y...> wrote:
>
> Hi Guys,
>
> The HXL-20 (lightweight 20m) antenna was awesome this weekend for the
> CQ WWDX CW, Europe has been very difficult from SoCal using the GAP
> vertical but the 20m version of the Hex allowed me to work even the EU
> stations that seemed weak on receive - not so with the GAP. 5db is alot
> when you are frequently operating on the margin.
>
> There is some string used on this antenna. Having removed the previous
> antenna after 2.5 years and seeing what the sun damage did to the tie
> wraps, tape, and coax, it made me wonder about the string on the new
> antenna.
>
> Anyone else have this antenna up for a couple years or more without
> needing to restring it?
>
> Thanks in advance,
> Don WB8YQJ/6
> Carlsbad, Ca.
>

2815. Problem with Photos?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-28 12:57:28 UTC
From: n3gnw
Topic: 2815 Message: 2815

I keep getting a GROUP_CHECK error when trying to open the photos here. Is there a problem?

73,
Mark N3GNW

2816. Re: Toroids

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-28 13:56:49 UTC
From: f8afc
Topic: 2806 Message: 2816

Hi Duke,
I may be interested in some toroids (let's say 10) for the next HX-5Bi that I'll purchase (using 9913 coax cable). i may not need them, but in case of, I'd rather like to have some...

Would it be possible for you, if you still have some available, to sell me some of them. I'll pay all shipping fees of course.

In advance, thansk for your answer,
73's
Ronan, F8AFC
ronan.torres@...

--- In hex-beam@yahoogroups.com, "Duke - NA1A" <na1a@n...> wrote:
>
> Hi Barry,
> Not sure of the exact mix nature, but they work extremely good for RFI suppressing. I believe they are mix 77. I use them here in the shack and out on the feedline to the antenna, use them on stereo speaker, telephone, alarm systems, you name it. It knocked all the RFI dead. I can run full legal limit now without any RFI situation.
> I can send some pictures of them if you're interested.
>
> 73,
> Duke - NA1A
> Website: http://NA1A.US
>
> -- "w4wb" <w4wb@a...> wrote:
> Duke,
>
> What type ferrite material are these please?
>
> 73,
> Barry W4WB
>
> --- In hex-beam@yahoogroups.com, "Duke - NA1A" <na1a@n...> wrote:
> >
> >
> > If anyone needs snap-on toroids to make balun for the HexBeam (or
> anything else), I got about 500 of these available. They fit
> perfectly over the RG-8 or 9913 size coax. I also have several
> thousand of the smaller snap on toroids that fit over the RG-59 or
> standard TV coax cable. These toroids work fantastic in suppressing
> RFI. I use both extensively here at my shack and RFI proof.

> > E-mail me direct for more info:
> > NA1A@N...
> >
> > 73,
> > Duke - NA1A
> >
> >
> > -- bur52@a... wrote:
> > I had a machine shop cut the toroids in half...and wraped each
one
> with some
> > electrical tape.
> > It seems to work..no ill effects > All said and done...mighta
> been quicker
> > to cut the coax! I am using rg-8-u
> >
> > 73
> > JohnB
> > kb3lxy
> >
> >
> > [Non-text portions of this message have been removed]
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>
>
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>
> [Non-text portions of this message have been removed]
>

2817. Re: [hex-beam] Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-28 15:25:17 UTC
From: Tom King
Topic: 2804 Message: 2817

What size electrical conduit did you use? I'm considering using schedule 40 3/4 or 1 inch size. What did you use for the center plate and the center verticle section? please keep us informed on the durability of the electrical conduit.

Anybody find a source for 10 foot fiberglass poles in the northwest USA?

--- n3gnw <n3gnw@...> wrote:

> I've been quiet here (and just about everywhere else
> on the net)
> since I said I was building a 5 bander.
>
> I got it together last Sunday (about 36 hours total
> work) but it
> didn't load on any band. Checking with an ohmmeter
> showed a dead
> short in the parallel feed line. I was going crazy
> trying to figure
> out where the problem was and not having any
> daylight after work.
> Finally my neighbor wondered if the screweyes I used
> could be
> shorting together in the mast. And that was it.
>
> Once I unshorted them and fired it up, it loaded
> nicely on 20 - 15.
> I adjusted 20 and it is now flat across the band as
> is 17. 15's SWR
> is a little high at the top end of the band. 12 is
> resonent out of
> band and 10 is narrow but that could be due to the
> metal frame of the
> picnic table its on.
>
> I'll try to finish tweaking it this evening and get
> it up on a 20
> foot mast tomorrow for the contest this weekend.
> Hopefully, I'll
> find the digital camara and get some pictures.
>
> This has been built as a temporary antenna with PVC
> electrical
> conduit as spreaders and a prototype but if it plays

> out I'm
> definitely looking at a official Traffie version.
> The PVC does take
> on some interesting shapes.
>
> Thanks to everyone for there info and pictures of
> their antennas.
> This is the most major thing I have built from the
> ground up in ham
> radio.
>
> 73,
> Mark N3GNW
>
>
>
>

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2818. hex-beam parts list and tubing information

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-28 15:43:14 UTC
From: Kevin Adam N9IWW
Topic: 2804 Message: 2818

gander mountain has up to 20 foot buddy shakesphere poles that work great
if just making 20-10m contact http://www.mgs4u.com/ max gain systems he has
what you need for less than 100 bucks shipped to your qth

These are the Tubing dimensions I used that work out. They are from Max-Gain
Systems, but only buy the 8 foot lengths, UPS will be considerable more, but the
length and sizes work.
Qty. Size Length
6 3/4" 8 feet Tubing
3 1" 8 feet Tubing
1 1 1/4" 8 feet Tubing
1 1/2" 8 feet Tubing
Cut the 1 1/4" Tubing to make 6 pieces to go on your Hex base plate wirh U-Bolts
and add the other sizes accordingly. By the way I used
1 1/4" U-Bolts and had to stretch them a little over a piece of barstock to fit over the
Fiberglass Tubing. Only use the 1/2" tubing cut in 6 pieces if you need a little more
curve at the end, it isn't necessary, some people like it better.
Wire I used was 14 Gauge Flex Weave 167 strand from Rf Davis, a little pricey but
excellent wire for the project.
Band Driven Length Reflector Length End Spacings
20M 219" 222" 5" & 7"
17M 169" 172" 3.5" & 5.5"
15M 145" 148" 3.25" & 4.75"
12M 122" 124" 2.5" & 4.25"
10M 109" 111" 2.25" & 3.5"
These are usually within a couple of inches in being tuned correctly.

Mast Spacing (Approx.) From SO239
20M 1.25" 17M 17.625" 15M 22.625" 12M 27.88" 10M 30.25"
The bottom of the center section is wherever the 10M lines look straight. Go up
from the with each to find all band straight rather than the mast spacing dimensions,
they are close but may vary a little. Even if they are not straight the antenna still
should work OK most of the time. Note the wire dimensions are for one leg side
only, so you will need two of each of these cut. The Aluminum Hex
plate I made was 12" and 5/16" thick, but 1/4" and 9.5" across the flats is good
also. By the way you tip spacing at the top will be around 113" for 20 Meters wire.
Now maybe this will give a few builders better insight. If anyone would like it I can
tell you how to do the center pole and Feed connections too. Jerry Farek N5GND
check out my photo section (N5GND) thanks to N5GND for this information.

On 28 Nov 2005 at 7:25, Tom King wrote:

> What size electrical conduit did you use? I'm
> considering using schedule 40 3/4 or 1 inch size.
> What did you use for the center plate and the center
> verticle section? please keep us informed on the

> durability of the electrical conduit.
>
> Anybody find a source for 10 foot fiberglass poles in
> the northwest USA?
>
>
> --- n3gnw <n3gnw@...> wrote:
>
> > I've been quiet here (and just about everywhere else
> > on the net)
> > since I said I was building a 5 bander.
> >
> > I got it together last Sunday (about 36 hours total
> > work) but it
> > didn't load on any band. Checking with an ohmmeter
> > showed a dead
> > short in the parallel feed line. I was going crazy
> > trying to figure
> > out where the problem was and not having any
> > daylight after work.
> > Finally my neighbor wondered if the screweyes I used
> > could be
> > shorting together in the mast. And that was it.
> >
> > Once I unshorted them and fired it up, it loaded
> > nicely on 20 - 15.
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> > is 17. 15's SWR
> > is a little high at the top end of the band. 12 is
> > resonent out of
> > band and 10 is narrow but that could be due to the
> > metal frame of the
> > picnic table its on.
> >
> > I'll try to finish tweaking it this evening and get
> > it up on a 20
> > foot mast tomorrow for the contest this weekend.
> > Hopefully, I'll
> > find the digital camara and get some pictures.
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> > This has been built as a temporary antenna with PVC
> > electrical
> > conduit as spreaders and a prototype but if it plays
> > out I'm
> > definitely looking at a official Traffie version.
> > The PVC does take
> > on some interesting shapes.
> >
> > Thanks to everyone for there info and pictures of
> > their antennas.

> > This is the most major thing I have built from the
> > ground up in ham
> > radio.
> >
> > 73,
> > Mark N3GNW
> >
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> Version: 7.1.362 / Virus Database: 267.13.8/184 - Release Date:
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>

2819. Re: [hex-beam] hex-beam parts list and tubing information

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-28 17:43:03 UTC
From: dave@zievid.com
Topic: 2804 Message: 2819

FWIW, I just put together a 5 bander with MaxGain poles as well. I used 4' 3/4" sections at the base, then 2 4' 1/2" sections going out to the tips. It seems strong and gives enough tension to pull the wires into shape.

The extra shipping cost for 8' poles is high, so you can get them cut to 4' and save a lot. I cut some short sections of 3/4" (get an extra pole) and glued one (about an inch long) as a stopper 6" up on one 1/2" pole. This becomes the middle 1/2" section which slides into the base 3/4" pole. For the top, I used a 10" section of 3/4" glued to the base of the outer 1/2" pole so it slides over the middle tube.

It certainly would be possible to use 1" or greater tubes at the base and use this approach to taper going out. I ended up with this arrangement after experimenting and finding the 1/4" solid rod does NOT give enough tension to hold the 20m wires firmly.

This sounds more complicated than it is. I hope to have some pictures up soon that will show it better.

- Dave
W6OT

> gander mountain has up to 20 foot buddy shakesphere poles that work great
> if just making 20-10m contact http://www.mgs4u.com/ max gain systems he
> has
> what you need for less than 100 bucks shipped to your qth
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>
> These are the Tubing dimensions I used that work out. They are from
> Max-Gain
> Systems, but only buy the 8 foot lengths, UPS will be considerable more,
> but the
> length and sizes work.
> Qty. Size Length
> 6 3/4" 8 feet Tubing
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> Cut the 1 1/4" Tubing to make 6 pieces to go on your Hex base plate wirh
> U-Bolts
> and add the other sizes accordingly. By the way I used
> 1 1/4" U-Bolts and had to stretch them a little over a piece of barstock
> to fit over the
> Fiberglass Tubing. Only use the 1/2" tubing cut in 6 pieces if you need a
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> curve at the end, it isn't necessary, some people like it better.
> Wire I used was 14 Gauge Flex Weave 167 strand from Rf Davis, a little
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> also. By the way you tip spacing at the top will be around 113" for 20
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> N5GND
> check out my photo section (N5GND) thanks to N5GND for this
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>> > Mark N3GNW
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>> Version: 7.1.362 / Virus Database: 267.13.8/184 - Release Date:
>> 11/27/2005
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2820. Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-28 18:09:25 UTC
From: n3gnw
Topic: 2804 Message: 2820

I used 1/2 inch (inside diameter) PVC electrical conduit. Its stamped UV resistant. It needed 1/2 inch wood dowels in it to stiffen it up and still needs some shape adjustment. Since its outdoor and underground rated, it should hold up for years in the elements. I am planning a second version with fiberglass spreaders someday.

For the center mast I used 6 feet of 1 1/4 inch wood closet clothing rod with a water sealer on it. The screw eyes hold the ends of the antenna wires to it and that's where they shorted. I am planning on replacing this with a 1 1/2 inch piece opf conduit and feeding the elements from the inside.

For the base plate I cut a 12 inch diameter circle out of 1/2 inch pressure trated plywood.

73,
Mark N3GNW

P.S. when I can get to the pictures section, I'll upload the ones I've taken.

--- In hex-beam@yahoogroups.com, Tom King <tommignon@y...> wrote:
>
> What size electrical conduit did you use? I'm
> considering using schedule 40 3/4 or 1 inch size.
> What did you use for the center plate and the center
> verticle section? please keep us informed on the
> durability of the electrical conduit.
>
> Anybody find a source for 10 foot fiberglass poles in
> the northwest USA?
>
>
> --- n3gnw <n3gnw@a...> wrote:
>
> > I've been quiet here (and just about everywhere else
> > on the net)
> > since I said I was building a 5 bander.
> >
> > I got it together last Sunday (about 36 hours total
> > work) but it
> > didn't load on any band. Checking with an ohmmeter
> > showed a dead
> > short in the parallel feed line. I was going crazy
> > trying to figure

> > out where the problem was and not having any
> > daylight after work.
> > Finally my neighbor wondered if the screweyes I used
> > could be
> > shorting together in the mast. And that was it.
> >
> > Once I unshorted them and fired it up, it loaded
> > nicely on 20 - 15.
> > I adjusted 20 and it is now flat across the band as
> > is 17. 15's SWR
> > is a little high at the top end of the band. 12 is
> > resonent out of
> > band and 10 is narrow but that could be due to the
> > metal frame of the
> > picnic table its on.
> >
> > I'll try to finish tweaking it this evening and get
> > it up on a 20
> > foot mast tomorrow for the contest this weekend.
> > Hopefully, I'll
> > find the digital camara and get some pictures.
> >
> > This has been built as a temporary antenna with PVC
> > electrical
> > conduit as spreaders and a prototype but if it plays
> > out I'm
> > definitely looking at a official Traffie version.
> > The PVC does take
> > on some interesting shapes.
> >
> > Thanks to everyone for there info and pictures of
> > their antennas.
> > This is the most major thing I have built from the
> > ground up in ham
> > radio.
> >
> > 73,
> > Mark N3GNW
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2821. Re: [hex-beam] Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-28 18:32:44 UTC
From: bur52@aol.com
Topic: 2804 Message: 2821

Hi Mark

I am sure that U will like the performance of the beam. I have had on at my (warminster) QTH for about 3 months. It never lets me down...amazing performance for such a small package.
I have it up at about 38 feet, on a Rohn push up tower. All bands work very well.

Mine was not homebrewed..I did the Traffie thing. Just did not have the time to home brew. But glad to hear yours is comming along !

73
KB3LXY / John Burch (Warminster re-tread ham/ 1967) Old call..WA3IRJ

[Non-text portions of this message have been removed]

2822. Re: [hex-beam] Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-28 21:00:47 UTC
From: buysmart2002
Topic: 2804 Message: 2822

I just bought six crappie poles at this site. They look really good to me and I am constructing a single band 20 M hex beam as my first. I don't plan to put any tension on the poles for this single bander. The poles are very light.

K4KIO

Tom King <tommignon@...> wrote: What size electrical conduit did you use? I'm considering using schedule 40 3/4 or 1 inch size.
What did you use for the center plate and the center verticle section? please keep us informed on the durability of the electrical conduit.

Anybody find a source for 10 foot fiberglass poles in the northwest USA?

--- n3gnw <n3gnw@...> wrote:

> I've been quiet here (and just about everywhere else
> on the net)
> since I said I was building a 5 bander.
>
> I got it together last Sunday (about 36 hours total
> work) but it
> didn't load on any band. Checking with an ohmmeter
> showed a dead
> short in the parallel feed line. I was going crazy
> trying to figure
> out where the problem was and not having any
> daylight after work.
> Finally my neighbor wondered if the screweyes I used
> could be
> shorting together in the mast. And that was it.
>
> Once I unshorted them and fired it up, it loaded
> nicely on 20 - 15.
> I adjusted 20 and it is now flat across the band as
> is 17. 15's SWR
> is a little high at the top end of the band. 12 is
> resonent out of
> band and 10 is narrow but that could be due to the
> metal frame of the
> picnic table its on.
>
> I'll try to finish tweaking it this evening and get
> it up on a 20
> foot mast tomorrow for the contest this weekend.

> Hopefully, I'll
> find the digital camara and get some pictures.
>
> This has been built as a temporary antenna with PVC
> electrical
> conduit as spreaders and a prototype but if it plays
> out I'm
> definitely looking at a official Traffie version.
> The PVC does take
> on some interesting shapes.
>
> Thanks to everyone for there info and pictures of
> their antennas.
> This is the most major thing I have built from the
> ground up in ham
> radio.
>
> 73,
> Mark N3GNW
>
>
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>

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[Non-text portions of this message have been removed]

2823. Re: [hex-beam] Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-28 21:21:55 UTC
From: buysmart2002
Topic: 2804 Message: 2823

My previous message didn't include the link to the site for purchase of fiberglass crappie poles. I bought six of them at www.bnmpoles.com and they are easily less than a pound each. Seem pretty strong and I am getting ready to construct a single band hex beam. If successful, I will expand later to multi-band.

K4KIO

buysmart2002 <buysmart2002@...> wrote: I just bought six crappie poles at this site. They look really good to me and I am constructing a single band 20 M hex beam as my first. I don't plan to put any tension on the poles for this single bander. The poles are very light.

K4KIO

Tom King <tommignon@...> wrote: What size electrical conduit did you use? I'm considering using schedule 40 3/4 or 1 inch size.
What did you use for the center plate and the center verticle section? please keep us informed on the durability of the electrical conduit.

Anybody find a source for 10 foot fiberglass poles in the northwest USA?

--- n3gnw <n3gnw@...> wrote:

> I've been quiet here (and just about everywhere else
> on the net)
> since I said I was building a 5 bander.
>
> I got it together last Sunday (about 36 hours total
> work) but it
> didn't load on any band. Checking with an ohmmeter
> showed a dead
> short in the parallel feed line. I was going crazy
> trying to figure
> out where the problem was and not having any
> daylight after work.
> Finally my neighbor wondered if the screweyes I used
> could be
> shorting together in the mast. And that was it.
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> Once I unshorted them and fired it up, it loaded
> nicely on 20 - 15.
> I adjusted 20 and it is now flat across the band as
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> is a little high at the top end of the band. 12 is
> resonent out of

> band and 10 is narrow but that could be due to the
> metal frame of the
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> I'll try to finish tweaking it this evening and get
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> foot mast tomorrow for the contest this weekend.
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> find the digital camara and get some pictures.
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> This has been built as a temporary antenna with PVC
> electrical
> conduit as spreaders and a prototype but if it plays
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> definitely looking at a official Traffie version.
> The PVC does take
> on some interesting shapes.
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> Thanks to everyone for there info and pictures of
> their antennas.
> This is the most major thing I have built from the
> ground up in ham
> radio.
>
> 73,
> Mark N3GNW
>
>
>
>

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[Non-text portions of this message have been removed]

2824. Re: [hex-beam] Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-29 03:08:13 UTC
From: buysmart2002
Topic: 2804 Message: 2824

Somebody help me. DL7IO's design for the hexbeam indicates 1,5 mm2 for the wire. I assume this means cross section of 5 mm square, which translates as best I can figure to 10 gauge. Is this right?

K4KIO

bur52@... wrote: Hi Mark

I am sure that U will like the performance of the beam. I have had on at my (warminster) QTH for about 3 months. It never lets me down...amazing performance for such a small package.
I have it up at about 38 feet, on a Rohn push up tower. All bands work very well.

Mine was not homebrewed..I did the Traffie thing. Just did not have the time to home brew. But glad to hear yours is comming along !

73
KB3LXY / John Burch (Warminster re-tread ham/ 1967) Old call..WA3IRJ

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

2825. Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-29 03:37:33 UTC
From: n3gnw
Topic: 2804 Message: 2825

I used 14 American Wire Guage wire for my driven and reflector elements. I think I saw a note that Holger used 16 guage wire but I don't know how European wire guages compare with ours (probably similar but metric based). 16 is smaller and lighter than 14. 1,5 mm2 is not really that big. Don't forget its Pi*(radius)squared.

For the low impedance feed line I used 6 AWG which was a little difficult to work with but more than 4 mm2 in cross section.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...>
wrote:
>
> Somebody help me. DL7IO's design for the hexbeam indicates 1,5 mm2
for the wire. I assume this means cross section of 5 mm square,
which translates as best I can figure to 10 gauge. Is this right?
>
>
> K4KIO
>
> bur52@a... wrote: Hi Mark
>
> I am sure that U will like the performance of the beam. I have
had on at my
> (warminster) QTH for about 3 months. It never lets me
down...amazing
> performance for such a small package.
> I have it up at about 38 feet, on a Rohn push up tower. All bands
work very
> well.
>
> Mine was not homebrewed..I did the Traffie thing. Just did not
have the time
> to home brew. But glad to hear yours is comming along !
>
> 73
> KB3LXY / John Burch (Warminster re-tread ham/ 1967) Old
call..WA3IRJ
>
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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2826. Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-29 07:46:43 UTC
From: dl7io
Topic: 2804 Message: 2826

Hello K4KIO,
the wire I used has an area of 1.5mm² or a diameter of 1.38mm or 0.054in.
But this is not critical. You easily can use bigger diameter. A serious effect on the length has any kind of insulation as this will lead to shorter elements (2-8%, depending on the kind of insulation).

By the way. I highly recommend to not (!) use PVC insulation. PVC is hf sensitive and gets hot if you run power. While using "legal power" the insulation may get damaged (fluid). With 100W or less this may not be critical.

And also I would not use PVC tubes for the spreaders. PVC is not strong enough (mounting/fixing), has no elasticity (tension for wires/shape of antenna)and is never UV resistent.

This is not saving money but wasting as you have to built twice.

73 Holger

--- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...> wrote:
>
> Somebody help me. DL7IO's design for the hexbeam indicates 1,5 mm2 for the wire. I assume this means cross section of 5 mm square, which translates as best I can figure to 10 gauge. Is this right?
>
>
> K4KIO
>
> bur52@a... wrote: Hi Mark
>
> I am sure that U will like the performance of the beam. I have had on at my
> (warminster) QTH for about 3 months. It never lets me down...amazing
> performance for such a small package.
> I have it up at about 38 feet, on a Rohn push up tower. All bands work very
> well.
>
> Mine was not homebrewed..I did the Traffie thing. Just did not have the time
> to home brew. But glad to hear yours is comming along !
>
> 73

> KB3LXY / John Burch (Warminster re-tread ham/ 1967) Old
call..WA3IRJ
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> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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2827. Re: [hex-beam] Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-29 17:48:21 UTC
From: buysmart2002
Topic: 2804 Message: 2827

Mark and Holger

Thanks for the info on the wire size. I had interpreted the 1,5 mm to mean that the cross section was 5 mm squared, a very thick piece of wire indeed. I guess the german decimal mark is a comma instead of the period which is used for the decimal mark in English. Anyway, thanks for clearing that up.

And Holger, I am not using PVC for spreaders; that stuff is ok for some things but not for hexbeam spreaders.

Leo, K4KIO

dl7io <dl7io@...> wrote: Hello K4KIO,
the wire I used has an area of 1.5mm² or a diameter of 1.38mm or 0.054in.
But this is not critical. You easily can use bigger diameter. A serious effect on the length has any kind of insulation as this will lead to shorter elements (2-8%, depending on the kind of insulation).

By the way. I highly recommend to not (!) use PVC insulation. PVC is hf sensitive and gets hot if you run power. While using "legal power" the insulation may get damaged (fluid). With 100W or less this may not be critical.

And also I would not use PVC tubes for the spreaders. PVC is not strong enough (mounting/fixing), has no elasticity (tension for wires/shape of antenna)and is never UV resistent.

This is not saving money but wasting as you have to built twice.

73 Holger

--- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...>
wrote:
>
> Somebody help me. DL7IO's design for the hexbeam indicates 1,5 mm2
for the wire. I assume this means cross section of 5 mm square,
which translates as best I can figure to 10 gauge. Is this right?
>
>
> K4KIO
>
> bur52@a... wrote: Hi Mark
>
> I am sure that U will like the performance of the beam. I have
had on at my
> (warminster) QTH for about 3 months. It never lets me

down...amazing
> performance for such a small package.
> I have it up at about 38 feet, on a Rohn push up tower. All bands
work very
> well.
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> Mine was not homebrewed..I did the Traffie thing. Just did not
have the time
> to home brew. But glad to hear yours is comming along !
>
> 73
> KB3LXY / John Burch (Warminster re-tread ham/ 1967) Old
call..WA3IRJ
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> [Non-text portions of this message have been removed]
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2828. Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-29 18:00:11 UTC
From: n3gnw
Topic: 2804 Message: 2828

I've been assuming that UV stabilized plastic electrical conduit is form of PVC, but is it? I'll try to check my spreaders in the dark and pouring rain tonight.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...> wrote:
>
> Mark and Holger
>
> Thanks for the info on the wire size. I had interpreted the 1,5 mm to mean that the cross section was 5 mm squared, a very thick piece of wire indeed. I guess the german decimal mark is a comma instead of the period which is used for the decimal mark in English. Anyway, thanks for clearing that up.
>
> And Holger, I am not using PVC for spreaders; that stuff is ok for some things but not for hexbeam spreaders.
>
> Leo, K4KIO
>
> dl7io <dl7io@q...> wrote: Hello K4KIO,
> the wire I used has an area of 1.5mm² or a diameter of 1.38mm or
> 0.054in.
> But this is not critical. You easily can use bigger diameter. A
> serious effect on the length has any kind of insulation as this will
> lead to shorter elements (2-8%, depending on the kind of insulation).
>
> By the way. I highly recommend to not (!) use PVC insulation. PVC is
> hf sensitive and gets hot if you run power. While using "legal power"
> the insulation may get damaged (fluid). With 100W or less this may
> not be critical.
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> And also I would not use PVC tubes for the spreaders. PVC is not
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> wires/shape of antenna)and is never UV resistent.
>
> This is not saving money but wasting as you have to built twice.

>
> 73 Holger
>
> --- In hex-beam@yahoogroups.com, buysmart2002
<buysmart2002@y...>
> wrote:
> >
> > Somebody help me. DL7IO's design for the hexbeam indicates
1,5 mm2
> for the wire. I assume this means cross section of 5 mm square,
> which translates as best I can figure to 10 gauge. Is this
right?
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> > K4KIO
> >
> > bur52@a... wrote: Hi Mark
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> had on at my
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> > performance for such a small package.
> > I have it up at about 38 feet, on a Rohn push up tower. All
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> > Mine was not homebrewed..I did the Traffie thing. Just did
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> have the time
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> > KB3LXY / John Burch (Warminster re-tread ham/ 1967) Old
> call..WA3IRJ
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> > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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2829. Re: [hex-beam] Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-28 15:57:31 UTC
From: Harold Burton
Topic: 2804 Message: 2829

----- Original Message -----
From: "Tom King" <tommignon@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, November 28, 2005 9:25 AM
Subject: Re: [hex-beam] Its together & working

> What size electrical conduit did you use? I'm
> considering using schedule 40 3/4 or 1 inch size.
> What did you use for the center plate and the center
> verticle section? please keep us informed on the
> durability of the electrical conduit.
>
> Anybody find a source for 10 foot fiberglass poles in
> the northwest USA?
>
>
Try your local farm and ranch stores. There are several makers of fiberglass electric fence posts that supply several diameters (3/8" and 1/2" are good) and in lengths from 48" to 84".
These posts are simply fiberglass rod with slightly sharpened ends. Unfortunately, all that the stores carry in my local area are the 3/8" by 48" posts. If the stores in your area carry the longer posts you can figure out a way to splice them into whatever length you need. I contrived plastic adapters (I cut strips of 3/4" thick HDPE and drilled 3 inch deep 3/8" holes in the end of the adapters) to splice and lengthen the 4 foot 3/8" posts into spreader lengths of 9' 10" to build my HexBeam. My posts and the plastic splices fit together much like the old wood Tinkertoys did. I did glue them together for a more robust construction, though.

Harold
KD5SAK

2830. Photo selection doesn't work

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-30 14:19:12 UTC
From: k9ge
Topic: 2830 Message: 2830

Hi - I keep getting a "GROUP ERROR " when trying to select the photo's. Everthing else works perfectly. Can you help ?
Thanks - Harold

2831. Re: Photo selection doesn't work

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-11-30 20:17:51 UTC
From: w4wb
Topic: 2830 Message: 2831

--- In hex-beam@yahoogroups.com, "k9ge" <eg9k@a...> wrote:
>
> Hi - I keep getting a "GROUP ERROR " when trying to select the
> photo's. Everthing else works perfectly. Can you help ?
> Thanks - Harold
>
Try agn. Deleted some folders. Space overfilled.
73,
Barry W4WB
moderator

2832. Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-01 21:01:26 UTC
From: n3gnw
Topic: 2804 Message: 2832

Well I checked them in the morning when it was a lot dryer and they
are marked PVC, UV resistant, above and underground use.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "n3gnw" <n3gnw@a...> wrote:
>
> I've been assuming that UV stabilized plastic electrical conduit
is
> form of PVC, but is it? I'll try to check my spreaders in the
dark
> and pouring rain tonight.
>
> 73,
> Mark N3GNW
>
> --- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...>
> wrote:
> >
> > Mark and Holger
> >
> > Thanks for the info on the wire size. I had interpreted the
1,5
> mm to mean that the cross section was 5 mm squared, a very thick
> piece of wire indeed. I guess the german decimal mark is a comma
> instead of the period which is used for the decimal mark in
> English. Anyway, thanks for clearing that up.
> >
> > And Holger, I am not using PVC for spreaders; that stuff is ok
> for some things but not for hexbeam spreaders.
> >
> > Leo, K4KIO
> >
> > dl7io <dl7io@q...> wrote: Hello K4KIO,
> > the wire I used has an area of 1.5mm² or a diameter of 1.38mm
or
> > 0.054in.
> > But this is not critical. You easily can use bigger diameter.
A
> > serious effect on the length has any kind of insulation as
this
> will
> > lead to shorter elements (2-8%, depending on the kind of
> insulation).

> >
> > By the way. I highly recommend to not (!) use PVC insulation.
> PVC is
> > hf sensitive and gets hot if you run power. While using "legal
> power"
> > the insulation may get damaged (fluid). With 100W or less this
> may
> > not be critical.
> >
> > And also I would not use PVC tubes for the spreaders. PVC is
not
> > strong enough (mounting/fixing), has no elasticity (tension
for
> > wires/shape of antenna)and is never UV resistent.
> >
> > This is not saving money but wasting as you have to built
twice.
> >
> > 73 Holger
> >
> > --- In hex-beam@yahoogroups.com, buysmart2002
> <buysmart2002@y...>
> > wrote:
> > >
> > > Somebody help me. DL7IO's design for the hexbeam indicates
> 1,5 mm2
> > for the wire. I assume this means cross section of 5 mm
square,
> > which translates as best I can figure to 10 gauge. Is this
> right?
> > >
> > >
> > > K4KIO
> > >
> > > bur52@a... wrote: Hi Mark
> > >
> > > I am sure that U will like the performance of the beam. I
> have
> > had on at my
> > > (warminster) QTH for about 3 months. It never lets me
> > down...amazing
> > > performance for such a small package.
> > > I have it up at about 38 feet, on a Rohn push up tower.
All
> bands
> > work very
> > > well.
> > >
> > > Mine was not homebrewed..I did the Traffie thing. Just did
> not

> > have the time
> > > to home brew. But glad to hear yours is comming along !
> > >
> > > 73
> > > KB3LXY / John Burch (Warminster re-tread ham/ 1967)
Old
> > call..WA3IRJ
> > >
> > >
> > > [Non-text portions of this message have been removed]
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> > [Non-text portions of this message have been removed]
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2833. Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-01 21:04:20 UTC
From: n3gnw
Topic: 2804 Message: 2833

Which crappie pole did you get from BnM poles?

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...>
wrote:
>
> My previous message didn't include the link to the site for
purchase of fiberglass crappie poles. I bought six of them at
www.bnmpoles.com and they are easily less than a pound each. Seem
pretty strong and I am getting ready to construct a single band hex
beam. If successful, I will expand later to multi-band.
>
> K4KIO
>
> buysmart2002 <buysmart2002@y...> wrote: I just bought six
crappie poles at this site. They look really good to me and I am
constructing a single band 20 M hex beam as my first. I don't plan
to put any tension on the poles for this single bander. The poles
are very light.
>
> K4KIO
>
> Tom King <tommignon@y...> wrote: What size electrical
conduit did you use? I'm
> considering using schedule 40 3/4 or 1 inch size.
> What did you use for the center plate and the center
> verticle section? please keep us informed on the
> durability of the electrical conduit.
>
> Anybody find a source for 10 foot fiberglass poles in
> the northwest USA?
>
>
> --- n3gnw <n3gnw@a...> wrote:
>
> > I've been quiet here (and just about everywhere else
> > on the net)
> > since I said I was building a 5 bander.
> >
> > I got it together last Sunday (about 36 hours total
> > work) but it
> > didn't load on any band. Checking with an ohmmeter
> > showed a dead

> > short in the parallel feed line. I was going crazy
> > trying to figure
> > out where the problem was and not having any
> > daylight after work.
> > Finally my neighbor wondered if the screweyes I used
> > could be
> > shorting together in the mast. And that was it.
> >
> > Once I unshorted them and fired it up, it loaded
> > nicely on 20 - 15.
> > I adjusted 20 and it is now flat across the band as
> > is 17. 15's SWR
> > is a little high at the top end of the band. 12 is
> > resonent out of
> > band and 10 is narrow but that could be due to the
> > metal frame of the
> > picnic table its on.
> >
> > I'll try to finish tweaking it this evening and get
> > it up on a 20
> > foot mast tomorrow for the contest this weekend.
> > Hopefully, I'll
> > find the digital camara and get some pictures.
> >
> > This has been built as a temporary antenna with PVC
> > electrical
> > conduit as spreaders and a prototype but if it plays
> > out I'm
> > definitely looking at a official Traffie version.
> > The PVC does take
> > on some interesting shapes.
> >
> > Thanks to everyone for there info and pictures of
> > their antennas.
> > This is the most major thing I have built from the
> > ground up in ham
> > radio.
> >
> > 73,
> > Mark N3GNW
> >
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> [Non-text portions of this message have been removed]
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2834. Re: [hex-beam] Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-02 02:47:23 UTC
From: buysmart2002
Topic: 2804 Message: 2834

I got six of the BW4, 13 foot poles for $11.83 each. The first three sections extend to about 122 inches so I don't need the fourth section as I am building a 20-10 five band system. I am inserting a 1 inch wood dowel about six inches long in the large end and bolting the dowel to the wood base plate. It's very strong and this way, I don't use U bolts and bring any crushing pressure on the pole.

If you are going to build a 20 meter hexbeam, I would not be tempted to buy the 10 foot crappie poles to save a few bucks because the last section is really not stiff enough to do the job. Go ahead and get the 13 foot poles and just use the three larger sections.

I just shoved the last section back into the pole; it weighs very little and it looked like too much trouble to get it out. The far end of the third section of the pole is 1/4 inch in diameter and I stuck 1/4 inch wood dowel about four inches long into the end of each. This makes it possible to tie to the end without cutting a hole in the pole itself thereby weakening it. I have drilled a small hole in each dowel to use to put a small homemade copper link in it that will be used to tie the nylon cords to (there will be three cords at this junction point, one to the center pole and one each to the adjacent crappie pole).

The poles when extended to ten feet can be bent up without any apparent stress (they are fishing poles afterall) but have enough rigidity that I am confident they will support all the wires (which will be 16 ga stranded, non-insulated) using DL7IO measurements.

I am painting all wood parts and using galvanized bolts.

The mast is inserted through a 1 5/16 hole in the center of the base. The mast is connected to the base using three simple 90 degree angle brackets. I am using a hose clamp to pull the brackets against the pole so there is no need to drill through the mast and use more bolts. This will make it possible to easily slide the base up and down the pole for minor adjustments as necessary.

To anchor the antenna wires to the poles, I will use a cable tie wrapped onto itself to form a loop with a long tail. The tail section of the tie will be taped to the pole. This way the antenna wire can slip easily inside the loop as needed. Guess it will take about 30 of these for a five band system. (6 per band).

Sorry, you asked what time it is and you got the design of the watch.

All the best,

Leo, K4KIO

n3gnw <n3gnw@...> wrote: Which crappie pole did you get from BnM poles?

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...>
wrote:

>
> My previous message didn't include the link to the site for
purchase of fiberglass crappie poles. I bought six of them at
www.bnmpoles.com and they are easily less than a pound each. Seem
pretty strong and I am getting ready to construct a single band hex
beam. If successful, I will expand later to multi-band.
>
> K4KIO
>
> buysmart2002 <buysmart2002@y...> wrote: I just bought six
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constructing a single band 20 M hex beam as my first. I don't plan
to put any tension on the poles for this single bander. The poles
are very light.
>
> K4KIO
>
> Tom King <tommignon@y...> wrote: What size electrical
conduit did you use? I'm
> considering using schedule 40 3/4 or 1 inch size.
> What did you use for the center plate and the center
> verticle section? please keep us informed on the
> durability of the electrical conduit.
>
> Anybody find a source for 10 foot fiberglass poles in
> the northwest USA?
>
>
> --- n3gnw <n3gnw@a...> wrote:
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> > I've been quiet here (and just about everywhere else
> > on the net)
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> >
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> > short in the parallel feed line. I was going crazy
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2835. Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-02 04:25:42 UTC
From: n3gnw
Topic: 2804 Message: 2835

Part of my justification for building the first is that its a prototype and learning tool. It needs improvement to withstand more than a couple of months of use. So your explanations give me a lot of ideas.

How do you mount the base plate to the support post (not center feed post)?

73,
Mark

--- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...> wrote:
>
> I got six of the BW4, 13 foot poles for $11.83 each. The first three sections extend to about 122 inches so I don't need the fourth section as I am building a 20-10 five band system. I am inserting a 1 inch wood dowel about six inches long in the large end and bolting the dowel to the wood base plate. It's very strong and this way, I don't use U bolts and bring any crushing pressure on the pole.
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> If you are going to build a 20 meter hexbeam, I would not be tempted to buy the 10 foot crappie poles to save a few bucks because the last section is really not stiff enough to do the job. Go ahead and get the 13 foot poles and just use the three larger sections.
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> I just shoved the last section back into the pole; it weighs very little and it looked like too much trouble to get it out. The far end of the third section of the pole is 1/4 inch in diameter and I stuck 1/4 inch wood dowel about four inches long into the end of each. This makes it possible to tie to the end without cutting a hole in the pole itself thereby weakening it. I have drilled a small hole in each dowel to use to put a small homemade copper link in it that will be used to tie the nylon cords to (there will be three cords at this junction point, one to the center pole and one each to the adjacent crappie pole).
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wire can slip easily inside the loop as needed. Guess it will take
about 30 of these for a five band system. (6 per band).
>
> Sorry, you asked what time it is and you got the design of the
watch.
>
> All the best,
>
> Leo, K4KIO
>
>
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2836. Re: [hex-beam] Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-03 18:03:40 UTC
From: buysmart2002
Topic: 2804 Message: 2836

Holger, I am building a 20 M hexbeam using your design measurements. They are very helpful. However, I have a question. The reflector element is longer than the driven element. Also the end spacing for the reflector element is greater. Does not this mean that the reflector element and the driven element must be in slightly different planes?
I installed the driven element first and am finding that the reflector element has too much slack in it. How is this to be dealt with?

The only solution I can find is to place the reflector element in a slightly higher plane than the driven element. Is that correct?
Thanks for any help.
73, Leo K4KIO
dl7io <dl7io@...> wrote:
Hello K4KIO,
the wire I used has an area of 1.5mm² or a diameter of 1.38mm or 0.054in.
But this is not critical. You easily can use bigger diameter. A serious effect on the length has any kind of insulation as this will lead to shorter elements (2-8%, depending on the kind of insulation).

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And also I would not use PVC tubes for the spreaders. PVC is not strong enough (mounting/fixing), has no elasticity (tension for wires/shape of antenna)and is never UV resistent.

This is not saving money but wasting as you have to built twice.

73 Holger

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> Somebody help me. DL7IO's design for the hexbeam indicates 1,5 mm2 for the wire. I assume this means cross section of 5 mm square, which translates as best I can figure to 10 gauge. Is this right?
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> bur52@a... wrote: Hi Mark
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> I am sure that U will like the performance of the beam. I have had on at my

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> performance for such a small package.
> I have it up at about 38 feet, on a Rohn push up tower. All bands
work very
> well.
>
> Mine was not homebrewed..I did the Traffie thing. Just did not
have the time
> to home brew. But glad to hear yours is comming along !
>
> 73
> KB3LXY / John Burch (Warminster re-tread ham/ 1967) Old
call..WA3IRJ
>
>
> [Non-text portions of this message have been removed]
>
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2837. Re: Its together & working

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-04 11:35:54 UTC
From: dl7io
Topic: 2804 Message: 2837

Hello Leo,
The reflector ens spacing is shorter than for the driven element.
It may be 1 value for the overall spacing and 1 value for reflector
or driven element spacing only.
In every case the reflector end isolator is shorter than for the
driven element.
73 Holger

--- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...>
wrote:
>
> Holger, I am building a 20 M hexbeam using your design
measurements. They are very helpful.
> However, I have a question. The reflector element is
longer than the driven element. Also the end spacing for the
reflector element is greater. Does not this mean that the reflector
element and the driven element must be in slightly different
planes?
> I installed the driven element first and am finding that
the reflector element has too much slack in it. How is this to be
dealt with?
>
> The only solution I can find is to place the reflector element
in a slightly higher plane than the driven element. Is that correct?
> Thanks for any help.
> 73, Leo K4KIO

2838. Wire Lengths??

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-03 22:50:23 UTC
From: ki4jwy
Topic: 2838 Message: 2838

I am in the process of building a 5 band HexBeam. The HexCalc program shows for 20 M a driven element length of 438.30" and a Reflector element length of 445.53".

I see another hexbeam on here with the following lengths:
Band Driven Length Reflector Length End Spacings
20M 219" 222"

Is the bottom figure for each wire from the screw to the tip or what?

John Cowan
W0TMM

2839. Re: Wire Lengths??

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-04 14:56:23 UTC
From: n3gnw
Topic: 2838 Message: 2839

I used Holger's metric meaurements converted to english. He is careful to point out that the measurement is for each leg and you need two legs for the driven side and two legs for the reflector side. I have not stared closely at the HexCalc values but they appear to need to be divided by two (or just cut the wires in half). 219 and 222 are almost exactly half of the HexCalc values you give.

For all of the legs I added four inches for tuning. I needed about 3 inches of it on 12m. All of the other bands needed some shortening.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "ki4jwy" <ki4jwy@y...> wrote:
>
> I am in the process of building a 5 band HexBeam. The HexCalc program
> shows for 20 M a driven element length of 438.30" and a Reflector
> element length of 445.53".
>
> I see another hexbeam on here with the following lengths:
> Band Driven Length Reflector Length End Spacings
> 20M 219" 222"
>
> Is the bottom figure for each wire from the screw to the tip or what?
>
> John Cowan
> W0TMM
>

2840. Feed Point

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-05 15:03:57 UTC
From: ki4jwy
Topic: 2840 Message: 2840

Does it make any difference whether you start at the 20M position or the 10M position to feed the 5 band HexBeam?

John Cowan
W0TMM

2841. Re: Feed Point

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-06 08:18:42 UTC
From: dl7io
Topic: 2840 Message: 2841

Hello John,
yes it does.
The lengths of the feeding line is part of the radiator.
It should not radiate intself as it is a parallel line. But the
elements far away from the feeding point have shorter lengths as they
would have with direct feeding.
If you feed from the other side the element dimensions are different.
73 Holger

--- In hex-beam@yahoogroups.com, "ki4jwy" <ki4jwy@y...> wrote:
>
> Does it make any difference whether you start at the 20M position or
> the 10M position to feed the 5 band HexBeam?
>
> John Cowan
> W0TMM
>

2842. Re: [hex-beam] Re: Feed Point

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-06 11:52:30 UTC
From: John Cowan
Topic: 2840 Message: 2842

The lengths quoted on HexCalc I assume are for feeding from the 20M postion at the top then?

John Cowan
W0TMM

dl7io <dl7io@...> wrote: Hello John,
yes it does.
The lengths of the feeding line is part of the radiator.
It should not radiate intself as it is a parallel line. But the
elements far away from the feeding point have shorter lengths as they
would have with direct feeding.
If you feed from the other side the element dimensions are different.
73 Holger

--- In hex-beam@yahoogroups.com, "ki4jwy" <ki4jwy@y...> wrote:
>
> Does it make any difference whether you start at the 20M position or
> the 10M position to feed the 5 band HexBeam?
>
> John Cowan
> W0TMM
>

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[Non-text portions of this message have been removed]

2843. Re: Feed Point

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-06 16:55:14 UTC
From: dl7io
Topic: 2840 Message: 2843

John,
HexCalc is a tool to calculate single band coordinates for the higher
bands.
It does not give dimension for multiband designs. You better check
the designs I published. This are multiband designs.
73 Holger

--- In hex-beam@yahoogroups.com, John Cowan <ki4jwy@y...> wrote:
>
> The lengths quoted on HexCalc I assume are for feeding from the 20M
postion at the top then?
>
> John Cowan
> W0TMM
>
> dl7io <dl7io@q...> wrote: Hello John,
> yes it does.
> The lengths of the feeding line is part of the radiator.
> It should not radiate intself as it is a parallel line. But the
> elements far away from the feeding point have shorter lengths as
they
> would have with direct feeding.
> If you feed from the other side the element dimensions are
different.
> 73 Holger
>
> --- In hex-beam@yahoogroups.com, "ki4jwy" <ki4jwy@y...> wrote:
> >
> > Does it make any difference whether you start at the 20M
position or
> > the 10M position to feed the 5 band HexBeam?
> >
> > John Cowan
> > W0TMM
> >
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> Lots of someones, actually. Try Yahoo! Personals
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>

2844. Re: [hex-beam] Re: Feed Point

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-06 23:29:59 UTC
From: John Cowan
Topic: 2840 Message: 2844

Holger:
I checked out your website. I copied the specifications. Looking at the photos it looks like two bolts on the center post for the driven element and one bolt on the center post for the reflector.. Is this correct?

John
W0TMM

dl7io <dl7io@...> wrote: John,
HexCalc is a tool to calculate single band coordinates for the higher bands.
It does not give dimension for multiband designs. You better check the designs I published. This are multiband designs.
73 Holger

--- In hex-beam@yahoogroups.com, John Cowan <ki4jwy@y...> wrote:
>
> The lengths quoted on HexCalc I assume are for feeding from the 20M postion at the top then?
>
> John Cowan
> W0TMM
>
> dl7io <dl7io@q...> wrote: Hello John,
> yes it does.
> The lengths of the feeding line is part of the radiator.
> It should not radiate intself as it is a parallel line. But the
> elements far away from the feeding point have shorter lengths as they
> would have with direct feeding.
> If you feed from the other side the element dimensions are different.
> 73 Holger
>
> --- In hex-beam@yahoogroups.com, "ki4jwy" <ki4jwy@y...> wrote:
> >
> > Does it make any difference whether you start at the 20M position or
> > the 10M position to feed the 5 band HexBeam?
> >
> > John Cowan
> > W0TMM
> >
>
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> Lots of someones, actually. Try Yahoo! Personals
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>

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[Non-text portions of this message have been removed]

2845. Re: Feed Point

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-07 07:20:47 UTC
From: dl7io
Topic: 2840 Message: 2845

John,
this must be an old photo. I made only one center post with just 1 connection point for both reflector legs. This was the first beam with inside installed feeding system (ser. No.3). All others have 2 srews and a small wire bridge to connect both legs is in the inside. I have detail photos but will not be back home before Friday night/Saturday.

Have you checked the photos of R1MVW (www.r1mvw.com). They used a mechanical hexagonal design to implement 3 elements. I will model this for extensions of the higher bands in the 40m multiband designs if I find some time.
It could be a 2 element hexagonal beam for 40/30m and a 3 element for 20/17 and may be 12m.

So it will be a combination of the hexbeam and a spiderbeam.
73 Holger

--- In hex-beam@yahoogroups.com, John Cowan <ki4jwy@y...> wrote:
>
> Holger:
> I checked out your website. I copied the
specifications. Looking at the photos it looks like two bolts on the center post for the driven element and one bolt on the center post for the reflector.. Is this correct?
>
> John
> W0TMM

2846. Re: [hex-beam] Re: Feed Point

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-07 14:21:54 UTC
From: buysmart2002
Topic: 2840 Message: 2846

Holger:

I am confused about the feedpoint for your design.

Your photos on your web site show the multi-band hexbeam is fed from the top. But the notes on the design data files show that the multi-band hexbeam is fed from the bottom. Which is correct? Feed from the top or feed from the bottom?

Could you please make this clear?

Thanks.

Leo, K4KIO

dl7io <dl7io@...> wrote: Hello John,
yes it does.
The lengths of the feeding line is part of the radiator.
It should not radiate intself as it is a parallel line. But the
elements far away from the feeding point have shorter lengths as they
would have with direct feeding.
If you feed from the other side the element dimensions are different.
73 Holger

--- In hex-beam@yahoogroups.com, "ki4jwy" <ki4jwy@y...> wrote:
>
> Does it make any difference whether you start at the 20M position or
> the 10M position to feed the 5 band HexBeam?
>
> John Cowan
> W0TMM
>

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2847. Re: Feed Point

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-07 15:33:55 UTC
From: dl7io
Topic: 2840 Message: 2847

Hello Leo,
this is easy to clarify.

The published 5 band design for 20-10m is for top feeding at the 20m element.
All other published designs (40m+ versions or 20m+ versions) are fed at the bottom or at the lowest band by mechanical installation, highest by frequency.

I could not see any advantage for top feeding. So all new designs were made for bottom feeding.

73 Holger

--- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...>
wrote:
>
> Holger:
>
> I am confused about the feedpoint for your design.
>
> Your photos on your web site show the multi-band hexbeam is fed from the top. But the notes on the design data files show that the multi-band hexbeam is fed from the bottom. Which is correct? Feed from the top or feed from the bottom?
>
> Could you please make this clear?
>
> Thanks.
>
> Leo, K4KIO

2848. NEW HX5Bi Beam Installed

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-08 16:38:01 UTC
From: Duke - NA1A
Topic: 2848 Message: 2848

I just put up a brand new HexBeam (HX5Bi) at N6SFD's QTH in Santa Monica, CA. The antenna is mounted on top 10 ft. roof top tower on a 300ft. tall buiding.
SWR is flat from band edge to band edge on every band with the exception of 17M - 1.3:1 SWR.
On the air test compare to previous antenna which was a Cushcraft MA5B (on the same tower), the reports were a substantial 4-5 S-units higher.
On the long haul, we could hear European (Italian station) at an S-5 where as on the Cushcraft, he was not audible.
Looks like the HexBeam does the trick again.

73,
Duke - NA1A
Website: http://NA1A.US

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[Non-text portions of this message have been removed]

2849. Re: [hex-beam] NEW HX5Bi Beam Installed

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-10 13:45:44 UTC
From: edward campbell
Topic: 2848 Message: 2849

Hi,
I read with interest your email..I have bought a HX5Bi...yet to be put up due to weather here in Idaho...but with my chat with Mr. Traffie ...he lead me to believe that if I had put the antenna on the push up pole mounted on to or next to the garage that has a metal roof...that the antenna would act as if it was only 20' off the ground compared to the 40' ... if it was on the pole and in the clear..so I have tried to put the antenna up in the clear but could have been up by now had I had gone to the antenna been mounted to the side of the garage instead of doing guy wire achors in the frozen ground.. Thoughts/comments???
ED NT4TT Idaho Falls, Id

Duke - NA1A <na1a@...> wrote:
I just put up a brand new HexBeam (HX5Bi) at N6SFD's QTH in Santa Monica, CA. The antenna is mounted on top 10 ft. roof top tower on a 300ft. tall buiding.
SWR is flat from band edge to band edge on every band with the exception of 17M - 1.3:1 SWR.
On the air test compare to previous antenna which was a Cushcraft MA5B (on the same tower), the reports were a substantial 4-5 S-units higher.
On the long haul, we could hear European (Italian station) at an S-5 where as on the Cushcraft, he was not audible.
Looks like the HexBeam does the trick again.

73,
Duke - NA1A
Website: http://NA1A.US

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2850. Re: NEW HX5Bi Beam Installed

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-11 22:35:06 UTC
From: w4wb
Topic: 2848 Message: 2850

Traffie is basically correct assuming your roof is 20' high and really big and flat. My Hex-Beam is on a push-up pole near the end and above a FLAT metal roof at 11'. Antenna is at about 36'. The roof is 30' wide and about 150' long. Do I notice a difference as I rotate the beam. Yep. Is it much. Nope. SWR is FB. Does it work okay. Well over 250 countries/entities with it. If your roof is not too large, then the effect of the roof is less than if it were really large in area.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, edward campbell <ah2beecamp@y...> wrote:
>
> Hi,
> I read with interest your email..I have bought a HX5Bi...yet to be put up due to weather here in Idaho...but with my chat with Mr. Traffie ...he lead me to believe that if I had put the antenna on the push up pole mounted on to or next to the garage that has a metal roof...that the antenna would act as if it was only 20' off the ground compared to the 40' ... if it was on the pole and in the clear..so I have tried to put the antenna up in the clear but could have been up by now had I had gone to the antenna been mounted to the side of the garage instead of doing guy wire achors in the frozen ground.. Thoughts/comments???
> ED NT4TT Idaho Falls, Id
>
> Duke - NA1A <na1a@n...> wrote:
> I just put up a brand new HexBeam (HX5Bi) at N6SFD's QTH in Santa Monica, CA. The antenna is mounted on top 10 ft. roof top tower on a 300ft. tall buiding.
> SWR is flat from band edge to band edge on every band with the exception of 17M - 1.3:1 SWR.
> On the air test compare to previous antenna which was a Cushcraft MA5B (on the same tower), the reports were a substantial 4-5 S-units higher.
> On the long haul, we could hear European (Italian station) at an S-5 where as on the Cushcraft, he was not audible.
> Looks like the HexBeam does the trick again.
>
> 73,
> Duke - NA1A
> Website: http://NA1A.US
>

>
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2851. Hex Beam VS Gap Titan

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-12 01:12:03 UTC
From: obiwan9325
Topic: 2851 Message: 2851

I Know, I Know, a vertical vs. the Hex Beam? But, Any hams out there that have replaced one for the other? What did you find? Also, optimal height for the Hex Beam?

Tom KE7BYC

2852. Re: [hex-beam] Hex Beam VS Gap Titan

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-13 14:59:29 UTC
From: Harold Burton
Topic: 2851 Message: 2852

----- Original Message -----
From: "obiwan9325" <transpacific@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, December 11, 2005 7:12 PM
Subject: [hex-beam] Hex Beam VS Gap Titan

>I Know, I Know, a vertical vs. the Hex Beam? But, Any hams out there
> that have replaced one for the other? What did you find? Also,
> optimal height for the Hex Beam?
>
> Tom KE7BYC

I can not speak to the relative capability of the Gap Titan. I do have a Hexbeam story, though. I helped a local Ham build and raise a Homebrew 20 meter Hexbeam this summer. His chief antenna was previously a vertical Hustler 5BTV, which he liked and used successfully. On the design Band the Hexbeam is much quieter and he has frequent easy conversations wjth Hams he can barely hear on the Hustler. I hasten to add that given the right conditions the Hustler is still the antenna to use, but, he really likes his Hexbeam. I also have a 5BTV which I like. As a matter of fact, as soon as I have breakfast I must go out to the shack/shop and complete rhe erection (30 feet) of my own homebrewed 20 meter Hexbeam. I raised it last evening to see if I had it functional and this morning I've got to weatherproof my coax connection, reraise the mast and place the ties for the coax and rotor cable. I hope to use my Hexbeam as successfully as my friend uses his. For some good Hexbeam info, try the website below.

http://midcoast.com/~w1gql/hex/buildyour.htm

Harold
KD5SAK

2853. Hex Beam VS Log Antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-13 17:17:13 UTC
From: Duke - NA1A
Topic: 2853 Message: 2853

On air signal comparison on 20M - Dec. 13th, 2005:
I was in a QSO with two stations in WA. They are about 20 miles apart. One station was using the HX5Bi at roughly 40 ft. His signal strength was 10 over S9 runing barefoot. The other station ran a 9 element log at 70ft. with 1.5KW of output power. He was 20dB over S-9.
I asked the station with the 1.5KW and log antenna to turn the linear off. Once he did that, his signal was the same as the station running the HexBeam with 100W at 40ft.

73,
Duke - NA1A
Website: http://NA1A.US

[Non-text portions of this message have been removed]

2854. Re: Hex Beam VS Gap Titan

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-13 18:20:45 UTC
From: n3gnw
Topic: 2851 Message: 2854

I temporarily put up a home made 5-band version for CQ WW CW with the antenna base at 23 feet (its down now and I'm planning structural improvements to it). It consistantly gave me 2 S units (as read from my TS-850's meter) over my Cushcraft R7 vertical. There were very few pileups I couldn't break in 2 or 3 calls, many in one call.

Due to the PVC I used for spreaders, the elements were not aligned as well as they could have been, so I expect somewhat better performance when I switch to fiberglass spreaders.

It was worth the effort to build it and put it up.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "obiwan9325" <transpacific@c...>
wrote:
>
> I Know, I Know, a vertical vs. the Hex Beam? But, Any hams out there
> that have replaced one for the other? What did you find? Also,
> optimal height for the Hex Beam?
>
> Tom KE7BYC
>

2855. Re: Hex Beam VS Gap Titan

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-14 01:02:04 UTC
From: wb8yqj
Topic: 2851 Message: 2855

I have the GAP Eagle, and have operated one since 1993.

At my QTH it's ground mounted and equivalent to a dipole at 30 feet for the bands it covers. Exclude 40m where the physical length of the antenna is insufficient.

My 20m hexbeam at 35 feet is normally two S-units better than the GAP and maintains that level without nearly as much fast QSB as the GAP. The hex also has less QRN.

I still like and enjoy the GAP for it's durability, ease of installation, and band versatility. Mine is painted green, never needs to be turned, and attracts no attention at all to my place. But it's no match for the hex beam.

2856. Re: [hex-beam] Hex Beam VS Gap Titan

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-14 03:22:16 UTC
From: bur52@aol.com
Topic: 2851 Message: 2856

Traffie says 35-40 feet is best...any higher and take off angle favors DX more...and Stateside less.
JohnB

[Non-text portions of this message have been removed]

2857. Subject: Re: Hex Beam VS Gap Titan

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-14 04:32:18 UTC
From: Len Johnson
Topic: 2857 Message: 2857

Two years ago, I bought a used 17M mono band HexBeam and did an A-B test against an R-7 vertical.
At first I had the Hex up about 18 ft and there was very little difference in performance. After raising the Hex to 28 ft, it was always far better than the R-7. The Hex only weighs 6 pounds and it doesn't move in the wind. The R-7 would lean over 30 degrees in the same wind. I use a TV mast and TV rotator (cheap).

Some day I hope to buy a 5-band Hex, but at 19 pounds i'll need a better mast and rotator.
73
Len....K6LRF

2858. Re: [hex-beam] Subject: Re: Hex Beam VS Gap Titan

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-15 16:36:50 UTC
From: Duke - NA1A
Topic: 2857 Message: 2858

I had an R-7 vertical up on my 50 ft tower at one time. Not only that it worked very poorly in all directions, but it also threw out RFI like there was no tomorrow. A guy way down the block even complained about hearing me on his telephone.
I got rid of this R7 after about a week and got the HXL-17 by Traffie. It worked so well on top of my W51 tower, so after a year, I replaced it with the HX5Bi. It's the right choice.
The only other antenna I would consider getting in the future would be the 40M HexBeam on a seperate tower (that is if I could get the approval from the XYL to put up a second tower...)
BTW, an el cheapo $60 Radio Shack rotator is all you'll need to rotate the 5 bander HexBeam.
73,
Duke - NA1A
Website: http://NA1A.US

-- "Len Johnson" <lengail@...> wrote:
Two years ago, I bought a used 17M mono band HexBeam and did an A-B test against an R-7 vertical.
At first I had the Hex up about 18 ft and there was very little difference in performance. After raising the Hex to 28 ft, it was always far better than the R-7. The Hex only weighs 6 pounds and it doesn't move in the wind. The R-7 would lean over 30 degrees in the same wind. I use a TV mast and TV rotator (cheap).

Some day I hope to buy a 5-band Hex, but at 19 pounds i'll need a better mast and rotator.
73
Len....K6LRF

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[Non-text portions of this message have been removed]

2859. Re: [hex-beam] Subject: Re: Hex Beam VS Gap Titan

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-16 01:31:22 UTC
From: bur52@aol.com
Topic: 2857 Message: 2859

I use the hex/ 5 bander at 40 feet. And a Rohn 40 foot push up mast. It spins with a regular channel master rotor, and a neat little digital controler. It is guyed at the 25 foot level. and again at the 35 five foot level. I am in the Noth east mid atlantic area...and it has seen 50 mph winds with no real movement at all. Works very well for a small beam. Does not give up much performance to most quad designs...but still not in the same leagues as a full size perodic etc.
Johnb

[Non-text portions of this message have been removed]

2860. KP5

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-16 23:15:35 UTC
From: ad1y1
Topic: 2860 Message: 2860

Hi all,

KP5 went into the log courtesy of the HexBeam today on 15 and 20 meters.

1 call on each band.

The guys on Desecheo were about 10 over S9.

Wishing all a Blessed Christmas and a Happy, Healthy, Peaceful New Year.

73,

Tony, AD1Y

2861. Re: [hex-beam] KP5

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-17 00:06:40 UTC
From: bur52@aol.com
Topic: 2860 Message: 2861

thanks tony
...and U and yours !
73
JohnB
KB3LXY

[Non-text portions of this message have been removed]

2862. SteppIR vs Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-17 00:19:08 UTC
From: obiwan9325
Topic: 2862 Message: 2862

Anyone do a comparison between a 2 or 3 element SteppIR and the 5 band Hex Beam? I'm torn between the two, but like the profile/footprint ogf the Hex Beam. Comments?

Tom
KE7BYC

2863. Re: [hex-beam] SteppIR vs Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-17 00:58:46 UTC
From: bur52@aol.com
Topic: 2862 Message: 2863

Hi Tom

That is where I was, before I bought the Hex. I woule believe the two element Stepir is on bar with the hex, in performance. But it does offer you 6 meters, if that matters. I do , however think the 3 element stepir is a better performer. Hard to beat a full size Yagi...that is always resonant. It certainly has more gain, and a better front to back .

But ...as you said. Hard to beat the small foot print...vs performance. And not to mention light weight, and wind loading. Ease of install? I put mine up by myself...using a 40 foot push up mast...Choose your weapon? I think I would buy another...
Happy Holidays
73
JohnB

[Non-text portions of this message have been removed]

2864. Re: [hex-beam] SteppIR vs Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-17 01:10:01 UTC
From: Transpacific
Topic: 2862 Message: 2864

TNX John for the input.
I keep gathering more and more due diligence opting for the Hex'r.
Happy Holidays.

Tom
KE7BYC
----- Original Message -----
From: bur52@...
To: hex-beam@yahoogroups.com
Sent: Friday, December 16, 2005 4:58 PM
Subject: Re: [hex-beam] SteppIR vs Hex Beam

Hi Tom

That is where I was, before I bought the Hex. I woule believe the two element Stepir is on bar with the hex, in performance. But it does offer you 6 meters, if that matters. I do , however think the 3 element stepir is a better performer. Hard to beat a full size Yagi...that is always resonant. It certainly has more gain, and a better front to back .

But ...as you said. Hard to beat the small foot print...vs performance. And not to mention light weight, and wind loading. Ease of install? I put mine up by myself...using a 40 foot push up mast...Choose your weapon? I think I would buy another...
Happy Holidays
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JohnB

[Non-text portions of this message have been removed]

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Version: 7.1.371 / Virus Database: 267.14.1/205 - Release Date: 12/16/2005

[Non-text portions of this message have been removed]

2865. Re: SteppIR vs Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-17 03:06:48 UTC
From: n3gnw
Topic: 2862 Message: 2865

I lucked out for once in my life and won an old Ameritron AL-80 amp at a Frankford Radio Club meeting. When asked if I would get it on the air for the upcoming CQWW CW contest I said I was concentrating on the hex beam I was building and I already had an 811H amp. Everyone said get the beam done. Since I had an almost as powerful amp, the beam would give me more bang for the buck.

So any beam is better than none.

I'm now looking at a old but in good shape Rohn 6 tower. Should be more than enough to hold up the 5 bander.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@c...> wrote:
>
> TNX John for the input.
> I keep gathering more and more due diligence opting for the Hex'r.
> Happy Holidays.
>
> Tom
> KE7BYC
> ----- Original Message -----
> From: bur52@a...
> To: hex-beam@yahoogroups.com
> Sent: Friday, December 16, 2005 4:58 PM
> Subject: Re: [hex-beam] SteppIR vs Hex Beam
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>
> Hi Tom
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> That is where I was, before I bought the Hex. I woule believe the two
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> 73
> JohnB
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2866. Re: [hex-beam] SteppIR vs Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-17 04:18:20 UTC
From: Mike Van Winkle
Topic: 2862 Message: 2866

unless your space is limited, why even bother comparing!The stepp will out talk it...especially the three elememt step...Lets face it ..All of us love the hex for its smmall foot print but it is a good COMPROMISE antenna...ITS NOT A FULL SIZED OPTIMIZED INOSPHERE BLASTER!...But in any hams arsenal both types of antennas have their application and place...The better question is do you have the space or the resources to fund the stepp install ...they ain't cheap! A hex however installed can come in under $400 installed if you can homebrew!!!You will also hve something you did!...So thats the best advice on this comparion I have!.....73 MIKE...KC4JMH

--- obiwan9325 <transpacific@...> wrote:

> Anyone do a comparison between a 2 or 3 element
> SteppIR and the 5 band
> Hex Beam? I'm torn between the two, but like the
> profile/footprint ogf
> the Hex Beam. Comments?
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> Tom
> KE7BYC
>
>
>
>

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2867. Re: [hex-beam] SteppIR vs Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-17 04:38:01 UTC
From: Harold Burton
Topic: 2862 Message: 2867

----- Original Message -----
From: "Mike Van Winkle" <janmike2001@...>
To: <hex-beam@yahoogroups.com>
Sent: Friday, December 16, 2005 10:18 PM
Subject: Re: [hex-beam] SteppIR vs Hex Beam

> A hex however installed can come in under
> $400 installed if you can homebrew!!!You will also hve
> something you did!...So thats the best advice on this
> comparion I have!.....73 MIKE...KC4JMH
>

They can be had even cheaper, My homebrew 20 meter monoband cost $65 to build and another hundred for 30 foot mast, UV resistant guy rope, new rotor cable and coax. Already posessed an AR-40 rotor (left over, dare I say it, from the CB days of my wasted youth). Better yet, the 20 meter Hexbeam turns out to be resonant on our local 2 meter repeater frequency and is usable even with the dreaded polarity disparity. I can work the repeater (15 miles away) with 5 watts easily. Guess having the antenna 30 feet high helps, not to mention the low hill upon which I live.

Harold
KD5SAK

2868. Re: [hex-beam] Re: SteppIR vs Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-17 13:55:25 UTC
From: Phil Paulhus
Topic: 2862 Message: 2868

Hi All,

I have HEX-Beam #28. Its been up on a 40 ft tower since 3/27/2000 thru high winds and ice storms in central Massachusetts with out any problems. I have been able to work any DX station heard with it and a Yaesu FT1000MP and Ameritron 811H. My location is in a valley 100 ft below the surrounding hills.

73 Phil k1ico
----- Original Message -----
From: n3gnw
To: hex-beam@yahoogroups.com
Sent: Friday, December 16, 2005 10:06 PM
Subject: [hex-beam] Re: SteppIR vs Hex Beam

I lucked out for once in my life and won an old Ameritron AL-80 amp
at a Frankford Radio Club meeting. When asked if I would get it on
the air for the upcoming CQWW CW contest I said I was concentrating
on the hex beam I was building and I already had an 811H amp.
Everyone said get the beam done. Since I had an almost as powerful
amp, the beam would give me more bang for the buck.

So any beam is better than none.

I'm now looking at a old but in good shape Rohn 6 tower. Should be
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73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@c...>
wrote:
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> TNX John for the input.
> I keep gathering more and more due diligence opting for the Hex'r.
> Happy Holidays.
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> Tom
> KE7BYC
> ----- Original Message -----
> From: bur52@a...
> To: hex-beam@yahoogroups.com
> Sent: Friday, December 16, 2005 4:58 PM
> Subject: Re: [hex-beam] SteppIR vs Hex Beam
>
>
> Hi Tom
>

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> JohnB
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2869. RE: [hex-beam] SteppIR vs Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-18 14:08:38 UTC
From: Ed Fox
Topic: 2862 Message: 2869

The SteppIR is a marvelous antenna but, if you're married, you had better have included monster antennas in your prenuptial agreement. The 5 band Hex is more likely to keep everyone in the family happy. It has survived the Minnesota ice storms and 80 mph wind. Merry Christmas. Ed, N0OQ

>From: "obiwan9325" <transpacific@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] SteppIR vs Hex Beam
>Date: Sat, 17 Dec 2005 00:19:08 -0000
>
>Anyone do a comparison between a 2 or 3 element SteppIR and the 5 band
>Hex Beam? I'm torn between the two, but like the profile/footprint ogf
>the Hex Beam. Comments?
>
>Tom
>KE7BYC
>
>
>

2870. Re: SteppIR vs Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-18 16:51:18 UTC
From: wb8yqj
Topic: 2862 Message: 2870

I contacted SteppIr and asked if they had considered a vertically oriented yagi with 3 elements where there would be 2 elements active at any time and direction would be selected by the software selecting the active elements. Similar to the old CB Super Scanner antenna except that they used one driven element and dual reflectors. Then the footprint of the antenna would be reduced considerably and it would not need to turn.

But they are making money hand over fist on their existing yagi or vertical product and trying to fill orders. So hexbeam seems to be the only game in town. That's fine here, all I need is one good option. The hexbeam has provided a presence on 20m that I never had before in 30 years of amateur radio.

--- In hex-beam@yahoogroups.com, "Ed Fox" <elfox@h...> wrote:
>
> The SteppIR is a marvelous antenna but, if you're married, you had
better
> have included monster antennas in your prenuptial agreement. The
5 band
> Hex is more likely to keep everyone in the family happy. It has
survived
> the Minnesota ice storms and 80 mph wind. Merry Christmas. Ed,
N0OQ
>
>
> >From: "obiwan9325" <transpacific@c...>
> >Reply-To: hex-beam@...m
> >To: hex-beam@yahoogroups.com
> >Subject: [hex-beam] SteppIR vs Hex Beam
> >Date: Sat, 17 Dec 2005 00:19:08 -0000
> >
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> >Hex Beam? I'm torn between the two, but like the
profile/footprint ogf
> >the Hex Beam. Comments?
> >
> >Tom
> >KE7BYC
> >
> >
> >
>

2871. Comparison tests of Hex Beam verse other Antennas

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-18 22:07:19 UTC
From: acbdzw
Topic: 2871 Message: 2871

I have had for the last 6 and a half years a Gap Titan Vertical and for the last 5 and a half years an HX5 Hex Beam (serial #081).My Gap Titan Vertical is approximately 20 meters from my house on a 2 meter mast on the Gap tilt over ground support. My Hex Beam is on a Glen Martin 1.75 meter roof tower. The Hex Beam is approximately 3 meters off my roof and about 12 meters off the ground. I run barefoot and also have a kw . I have made tests over the years just running 100 watts and with the
kw.
As far as vertical antennas go I think the Gap Titan is a good vertical antenna.This is evidenced by the mostly favorable reviews the Titan has received on eham.net and from personal experience with the antenna. .My only complaint with the Titan vertical is mainly on 80 meters where it is not a good antenna. However I knew this when I bought the
Titan.
But the Gap Titan vertical is no match against my Traffie Hex Beam on 10 -20 meters and the warc bands. I have consistently received reports, making tests running barefoot and with the kw on both antennas, of from a 2 to 4 S unit difference in favor of my Hex Beam over the vertical.However in reality you cannot compare a Hex Beam which gives gain and has an fb ratio to a vertical which is a multi directional antenna with a low angle of radiation but without much gain. Thus you really cannot make a fair comparison between someone using a Hex Beam and someone using a vertical from the same location. The Hex Beam ,all things being equal,should outperform the vertical all the
time.
I have room at my QTH for a tower in my backyard and a much bigger antenna than my Hex Beam and roof tower. However I wanted a low profile antenna that my xyl and neighbors would not object. This I have with my present set up and I am
satisfied .
In general if I can here a station on my Hex Beam I can work them all over the world, especially when I run my kw.I mostly operate SSB but occasionally go on cw.I use my vertical mostly on 30 and 40
meters.
In the past at other qth's I have had for a number of years a Mosley Classic 33 triband beam and a Cushcraft A3 tribander. It is my opinion and I have not run any tests on this, that my Hex Beam works out just as well if not better than your average 3 element tribander on a small boom such as your TA33 by mosley, Acushcraft, TH3 by Hy Gain and C3 by Force 12.The Hex Beam also covers the warc bands and the average tribander does not cover these
bands.

I have made comparison tests with friends who are using the KLM Kt34xa antenna and the Step IR 4 element antenna on 15 meter towers. Running the same power those using the 4 element Step Ir and KLM KT34XA consistently got reports of about 2 S units more than I got. But remember their antennas are much bigger and much higher than my little Hex Beam which theoretically is only equivalent to a 2 element beam. Mike Traffie has also told me if I put my Hex Beam up higher and gotten it away from my house I would probably work out better. However I am satisfied with the antenna the way it is at present.

Several years ago World Radio Magazine had the only comparison test of a Hex Beam comparing it to another antenna under similar conditions. I forget which issue it was in but maybe another member of this group can post more about this test. According to my recollection the test site was in New Hampshire. The Hex Beam was being compared to Mosley TA 32 2 element beam.Both the Hex Beam and TA 32 were on towers approximately 20 meters high about 30 meters from each other . The test was done just running 100 watts.

If I also recollect correctly the test was only conducted on 20 meters. There were two receiving stations. One was in the Detroit Michigan area and the other in Los Angeles California.The results were interesting. The Detroit station who was copying the signal on short skip did not notice any difference in signal strength between the TA32 and the Hex Beam.However the Los Angelis station on a longer skip gave the Hex Beam an advantage of 2 S units. This is the only test under similar conditions that I know between a Hex Beam and another beam antenna.

I wish this test would have been made against a 3 element tribander instead of the 2 element TA32. I still think the Hex Beam would have come out better or at the very least just as good on the longer skip.

I am not going to put down the Step IR antennas because they are very good nor will I put down other good antennas such as the Optibeam or similar antennas. For those that have the space and funds to purchase these antennas they work out very well. Most likely these larger antennas should work out better than the Hex Beam.

However I wish someone or organization like World Radio would make comparable tests . I am curious how the Hex Beam compares to the 2element Step Ir antenna. I would think off hand the 3 element Step Ir is better but not the 2 element model. However I know of no tests that have actually compared the Hex Beam. to these other antennas nor to your average tribander.If someone wants to make these tests I think it would be greatly appreciated by the Hex Beam community in particular and the rest of the amateur radio community in general.

Again from my own tests the Hex Beam is at least 2 S units better than my Gap Titan Vertical. However stations using larger multiband

antennas and mono band antennas including the 4 element stepIr get reports of up to 2 S units better than my little Hex Beam. 73 and wishing everyone a happy holiday season-Alan-K2ACB

2872. Re: [hex-beam] Comparison tests of Hex Beam verse other Antennas

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-18 22:39:48 UTC
From: Transpacific
Topic: 2871 Message: 2872

To Alan K2ACB,
An awesome review article. Well done!
Many TNX
Tom KE7BYC
----- Original Message -----
From: acbdzw
To: hex-beam@yahoogroups.com
Sent: Sunday, December 18, 2005 2:07 PM
Subject: [hex-beam] Comparison tests of Hex Beam verse other Antennas

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I am not going to put down the Step IR antennas because they are very good nor will I put down other good antennas such as the Optibeam or similar antennas. For those that have the space and funds to purchase these antennas they work out very well. Most likely these larger antennas should work out better than the Hex Beam.
However I wish someone or organization like World Radio would make

comparable tests . I am curious how the Hex Beam compares to the 2element Step Ir antenna. I would think off hand the 3 element Step Ir is better but not the 2 element model. However I know of no tests that have actually compared the Hex Beam. to these other antennas nor to your average tribander.If someone wants to make these tests I think it would be greatly appreciated by the Hex Beam community in particular and the rest of the amateur radio community in general.
Again from my own tests the Hex Beam is at least 2 S units better than my Gap Titan Vertical. However stations using larger multiband antennas and mono band antennas including the 4 element stepIr get reports of up to 2 S units better than my little Hex Beam. 73 and wishing everyone a happy holiday season-Alan-K2ACB

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[Non-text portions of this message have been removed]

2873. New on Forum

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-19 18:38:12 UTC
From: Kurt Thys
Topic: 2873 Message: 2873

Hallo
Im New on this groep and reading all the experience about the Hex -beam in full interesting .
The next few month i m planning the make a hex beam for 10,12,15,17,20,40 meter
Sombody can help my with plans ,distance, Photo, and so on .
All info will be more than welcome
Many thanks in advance
ON3KT

2874. RE: [hex-beam] New on Forum

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-20 10:38:48 UTC
From: ON8VA
Topic: 2873 Message: 2874

Kurt,

Je kan alles vinden op de site van DL7IO, verschillende foto's staan bij deze yahoo groep. Meeste info is hier terug te vinden.

Download de gegevens van DL7IO en je kan van start gaan. Enkel oppassen voor het materiaal dat je wil gebruiken.

Indien je meer info van iets wenst stel je gewoon de vraag op het forum.

73 en GL met de bouw van de antenne.

Chris - ON8VA

Van: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] Namens Kurt Thys
Verzonden: maandag 19 december 2005 19:38
Aan: hex-beam@yahoogroups.com
Onderwerp: [hex-beam] New on Forum

Hallo
Im New on this groep and reading all the experience about the Hex -beam in full interesting .
The next few month i m planning the make a hex beam for 10,12,15,17,20,40 meter
Sombody can help my with plans ,distance, Photo, and so on .
All info will be more than welcome
Many thanks in advance
ON3KT

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---

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[Non-text portions of this message have been removed]

2875. 40/80 Meter solution

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-20 18:50:10 UTC
From: Transpacific
Topic: 2875 Message: 2875

Ok, I'm now convinced to purchase a Hex Beam.
What has the group found to be a great 40 and 80 meter antenna to complement the Hex beam?

Tom KE7BYC

[Non-text portions of this message have been removed]

2876. Re: 40/80 Meter solution

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-20 19:26:07 UTC
From: dl7io
Topic: 2875 Message: 2876

Hi Tom,
the best would be to use a Hexbeam at 40m or minimum 30m (100ft.)
height. I'm still looking for a beta tester with this possibility.
73 Holger

--- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@c...>
wrote:
>
> Ok, I'm now convinced to purchase a Hex Beam.
> What has the group found to be a great 40 and 80 meter antenna to
complement the Hex beam?
>
> Tom KE7BYC
>
>
> [Non-text portions of this message have been removed]
>

2877. Re: [hex-beam] 40/80 Meter solution

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-20 19:28:20 UTC
From: Harold Burton
Topic: 2875 Message: 2877

I can't presume to give advice on possible great 40 and 80 meter antennas to complement the Hexbeam. There was a recent QST article on a crossed 40 and 80 meter inverted vee NVIS antenna that you might consult. I am using a brand new homebrew 20 meter hexbeam, though, and I've discovered my MFJ-948 tuner will tune the Hexbeam down to 160 meters and up to 15 meters. It'll probably tune everything between 10 and 160 meters, but I've not tried the bands above 15 because I've not heard anything on those bands to try for. When raising my Hexbeam on a 30 foot mast last week, I used a MFJ-369 analyzer and was pleased to find that the Hexbeam was resonant on 2 meters as well as 20 meters. I don't have any idea this early in my usage of the Hexbeam how effective using the tuner on the other bands will be, but I intend to find out.

Harold
KD5SAK

----- Original Message -----
From: "Transpacific" <transpacific@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, December 20, 2005 12:50 PM
Subject: [hex-beam] 40/80 Meter solution

> Ok, I'm now convinced to purchase a Hex Beam.
> What has the group found to be a great 40 and 80 meter antenna to
> complement the Hex beam?
>
> Tom KE7BYC
>
>
> [Non-text portions of this message have been removed]
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2878. Re: 40/80 Meter solution

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-21 02:01:20 UTC
From: k4ten
Topic: 2875 Message: 2878

I am using the 80 meter windom from www.packetradio.com. I am VERY happy with it. It is very well made and I don't have to use a tuner with it. Its about as cheap to buy one from packetradio as it is to homebrew using equally good components.

It is much better than the G5RV I had up before. I like it better than a band specific dipole too. I have never had a fan dipole so I can't comment on that one. I don't need to try one now that I am happy with the windom.

I have the Hexbeam on antenna port 1 and the windom on antenna port 2. I now wish I had 2 amps! Perhaps in the future I can add a Toyko Hy-Power amp to the Hex port and keep the 811h on the windom port.

The Hexbeam has been my best ham product purchase ever.

You won't regret getting the Hexbeam!

Frankie
K4TEN

> ----- Original Message -----
> From: "Transpacific" <transpacific@c...>
> To: <hex-beam@yahoogroups.com>
> Sent: Tuesday, December 20, 2005 12:50 PM
> Subject: [hex-beam] 40/80 Meter solution
>
>
> > Ok, I'm now convinced to purchase a Hex Beam.
> > What has the group found to be a great 40 and 80 meter antenna to
> > complement the Hex beam?
> >
> > Tom KE7BYC
> >
> >
> > [Non-text portions of this message have been removed]
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>

2879. Re: [hex-beam] Re: 40/80 Meter solution

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-21 03:50:13 UTC
From: bur52@aol.com
Topic: 2875 Message: 2879

ditto on the HEX... :)

[Non-text portions of this message have been removed]

2880. Posted pictures

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-22 03:32:18 UTC
From: n3gnw
Topic: 2880 Message: 2880

I posted some pictures of the MkI (Mark 1) hex beam I built. Depending on how much I get done over the next week or two I will either have the MkIa or a MkII.

With apologies to all hams who regularly use metric I have english units here for the materials I used.

The base plate is a 12 inch diameter circle I cut from 1/2 inch thich pressure treated plywood. The 1/2 inch inside diameter PVC electrical conduit is held on with PVC conduit clamps. The conduit is 10 feet long and I put 8 feet of wood dowel in it to stiffen it up. Overall I have to agree with the other comments that PVC is not a good choice for spreaders.

The center mast is 1 1/4 wood closet rod. The feedline is 6 AWG. I put smaller guage wire taps at the appropriate points. Screw eyes into the wood act as attachment points and strain relief.

I used hose clamps, tie wraps and PEX tubing to attach the elements to the spreaders. This is going to get simplified to just dual tie wraps. The ends of the elements are folded pack and held in place with cable clamps. This leaves a little loop at the end to tie off at the correct distance with some twine.

73,
Mark N3GNW

2881. Re: Posted pictures

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-23 16:12:03 UTC
From: t_ashland
Topic: 2880 Message: 2881

Hi Mark,
What would you say the total cost of materials was in your project?
TIA,
Terry, WK0F

--- In hex-beam@yahoogroups.com, "n3gnw" <n3gnw@a...> wrote:
>
> I posted some pictures of the MkI (Mark 1) hex beam I built.
> Depending on how much I get done over the next week or two I will
> either have the MkIa or a MkII.
>
> With apologies to all hams who regularly use metric I have english
> units here for the materials I used.
>
> The base plate is a 12 inch diameter circle I cut from 1/2 inch thich
> pressure treated plywood. The 1/2 inch inside diameter PVC
> electrical conduit is held on with PVC conduit clamps. The conduit
> is 10 feet long and I put 8 feet of wood dowel in it to stiffen it
> up. Overall I have to agree with the other comments that PVC is not
> a good choice for spreaders.
>
> The center mast is 1 1/4 wood closet rod. The feedline is 6 AWG. I
> put smaller guage wire taps at the appropriate points. Screw eyes
> into the wood act as attachment points and strain relief.
>
> I used hose clamps, tie wraps and PEX tubing to attach the elements
> to the spreaders. This is going to get simplified to just dual tie
> wraps. The ends of the elements are folded pack and held in place
> with cable clamps. This leaves a little loop at the end to tie off
> at the correct distance with some twine.
>
> 73,
> Mark N3GNW
>

2882. Visit my website

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-23 18:10:45 UTC
From: John
Topic: 2882 Message: 2882

Hello everybody,
Im busy to make my own website, I have also included a antennapage and a hexbeampage; it is still under construction but you can already visit it and please sign my guestbook also. The site will be soon translated in English to.The URL is http://www.pa2jjb.texel.com
Comments and ideas are very much appriciated

MERRY CHRISMAS AND HAPPY NEW YEAR AND HPE CUAGN U SOON ON THE HEXBEAM

73's de Jan PA2JJB Texel-island

2883. New hexbeam web site

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-23 23:17:06 UTC
From: buysmart2002
Topic: 2883 Message: 2883

I have documented my experience in building a five band hexbeam in a new web site for anyone who might be interested. I am still checking the spelling and numbers for accuracy but the general construction ideas are available now at

http://www.leoshoemaker.com/k4kio.html

73, K4KIO

2884. Re: Posted pictures

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-24 04:13:38 UTC
From: n3gnw
Topic: 2880 Message: 2884

The current version ran about $100. Not a bad price for the
performance I got on 5 bands.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "t_ashland" <t_ashland@y...> wrote:
>
> Hi Mark,
> What would you say the total cost of materials was in your project?
> TIA,
> Terry, WK0F
>
> --- In hex-beam@yahoogroups.com, "n3gnw" <n3gnw@a...> wrote:
> >
> > I posted some pictures of the MkI (Mark 1) hex beam I built.
> > Depending on how much I get done over the next week or two I will
> > either have the MkIa or a MkII.
> >
> > With apologies to all hams who regularly use metric I have
english
> > units here for the materials I used.
> >
> > The base plate is a 12 inch diameter circle I cut from 1/2 inch
thich
> > pressure treated plywood. The 1/2 inch inside diameter PVC
> > electrical conduit is held on with PVC conduit clamps. The
conduit
> > is 10 feet long and I put 8 feet of wood dowel in it to stiffen
it
> > up. Overall I have to agree with the other comments that PVC is
not
> > a good choice for spreaders.
> >
> > The center mast is 1 1/4 wood closet rod. The feedline is 6
AWG. I
> > put smaller guage wire taps at the appropriate points. Screw
eyes
> > into the wood act as attachment points and strain relief.
> >
> > I used hose clamps, tie wraps and PEX tubing to attach the
elements
> > to the spreaders. This is going to get simplified to just dual
tie
> > wraps. The ends of the elements are folded pack and held in

place
> > with cable clamps. This leaves a little loop at the end to tie
off
> > at the correct distance with some twine.
> >
> > 73,
> > Mark N3GNW
> >
>

2885. Re: New hexbeam web site

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-24 04:15:25 UTC
From: n3gnw
Topic: 2883 Message: 2885

Great job and great web site. How are the crappie poles holding up?

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "buysmart2002" <buysmart2002@y...>
wrote:
>
> I have documented my experience in building a five band hexbeam in a
> new web site for anyone who might be interested. I am still checking
> the spelling and numbers for accuracy but the general construction
> ideas are available now at
>
> http://www.leoshoemaker.com/k4kio.html
>
> 73, K4KIO
>

2886. Re: [hex-beam] Re: Posted pictures

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-24 04:16:07 UTC
From: bur52@aol.com
Topic: 2880 Message: 2886

Just a bit less tham My Traffie five bander :)

73
Happy Holidays
JohnB
kb3lxy

[Non-text portions of this message have been removed]

2887. MODERATOR MESSAGE: Holiday season schedule

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-24 04:50:46 UTC
From: w4wb
Topic: 2887 Message: 2887

Folks,

My checking for new member pending postings may be at times longer than 24 hours due to holiday activities. Hopefully, this will not cause too much unhappiness.

May each of our group have a wonderful and safe holiday season, and a fine New Year.

73 es Merry Christmas,
Barry W4WB
Moderator

2888. Re: New hexbeam web site

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-24 14:08:44 UTC
From: k8nke
Topic: 2883 Message: 2888

i was wondering if you had any more detail on the construction of the feed system the pictures don't seem to show this very well.
thanks k8nke

--- In hex-beam@yahoogroups.com, "buysmart2002" <buysmart2002@y...> wrote:
>
> I have documented my experience in building a five band hexbeam in a
> new web site for anyone who might be interested. I am still checking
> the spelling and numbers for accuracy but the general construction
> ideas are available now at
>
> http://www.leoshoemaker.com/k4kio.html
>
> 73, K4KIO
>

2889. Re: [hex-beam] Re: New hexbeam web site

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-24 14:52:41 UTC
From: buysmart2002
Topic: 2883 Message: 2889

Thanks for the words. The crappie poles are holding up well Haven't had a Katrina yet but I really don't expect any problems

73,

Leo, K4KIO.

n3gnw <n3gnw@...> wrote: Great job and great web site. How are the crappie poles holding up?

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "buysmart2002" <buysmart2002@y...>
wrote:
>
> I have documented my experience in building a five band hexbeam in a
> new web site for anyone who might be interested. I am still checking
> the spelling and numbers for accuracy but the general construction
> ideas are available now at
>
> http://www.leoshoemaker.com/k4kio.html
>
> 73, K4KIO
>

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2890. Re: [hex-beam] Re: New hexbeam web site

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-24 15:01:58 UTC
From: buysmart2002
Topic: 2883 Message: 2890

Thanks. Well, I shoudda shot some more photos.

I used about #6 ga insulated wire and kept it laced together tightly with little cable ties whilst going up the post. One photo shows it fed from the top and that worked best for 20 meters but later I decided to feed from the bottom with was better for the high freq bands.

All bands are connected to the same feedline. No toroids or baluns are used on my hexbeam; although, I have seen others who did use these.

I used solder connections entirely with no other screws, or such hardware. The main thing holding the feed line to the post are the 8 inch cable ties. These things are marvelous for lots of uses on the hexbeam; cheap and effective. Get the ones that are UV resistant since your beam will be in the sunlight.

Hope that answers the questions.

73,

Leo, K4KIO

k8nke <dmess4391@...> wrote: i was wondering if you had any more detail on the construction of the
feed system the pictures don't seem to show this very well.
thanks k8nke

--- In hex-beam@yahoogroups.com, "buysmart2002" <buysmart2002@y...>
wrote:
>
> I have documented my experience in building a five band hexbeam in a
> new web site for anyone who might be interested. I am still checking
> the spelling and numbers for accuracy but the general construction
> ideas are available now at
>
> http://www.leoshoemaker.com/k4kio.html
>
> 73, K4KIO
>

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2891. Another "Hex-Beam" Experience

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-26 00:26:17 UTC
From: w4wb
Topic: 2891 Message: 2891

FWIW, I had another of those interesting DX QSO's where the DX is weak and I'm a lot stronger. About 1900Z, 5R8GZ was operating a simplex pileup on 14.202. Nice steady operator. Lots of callers. He was working almost nothing but Canadians, some W1's, W9'S, and upper West Coast stations. They all said he was 57 to 59, and 5R8GZ was giving back like reports. At my QTH, he was about 32 at first and then the signal built to mayby 53 to 54. At that point I called him and got him through the pile on the second try and received a 57 report.

Looking at the the propagation program, I again observed this is a reasonable situation given that the receive lobe of the Hex-Beam is higher than the transmit beam lobe (TOA).

As I have said before, if I can hear (distant) DX, then I can work them, even in a simplex pile favoring others.

The Hex-Beam is just two elements, but it sure rocks!

73,
Barry W4WB

2892. Re: [hex-beam] Another "Hex-Beam" Experience

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-26 02:53:53 UTC
From: Duke - NA1A
Topic: 2891 Message: 2892

Well Barry, I echo your experience. Just two days ago, when I was on 20M with a station back in Virginia. A friend of mine joined into the QSO. This local friend was about 60 miles North of me in the Santa Monica mountains (near Malibu). He ran 1.5KW to a 6 element monobander up 60 ft. My HexBeam with the Alpha 87A also at full legal limit obtained the same signal strength report as my friend in the SM mountains.
Second experienced. I was on 20M talking to a station in the Virgin Islands. A Ham in Santa Barbara (which would be about 150 miles North of me) joined in. He wanted to check out his new 3 element SteppIR and obtained a signal report. He ran 1.5KW and got 10dB over S9 from the Virgin Island station. My HX5Bi and the 1.5KW also got 10dB over S9.
The only other antenna I would consider now is a 40M HexBeam to improve over my Carolina Windom for that band...
73,
Duke - NA1A
Website: http://NA1A.US

-- "w4wb" <w4wb@...> wrote:
FWIW, I had another of those interesting DX QSO's where the DX is weak and I'm a lot stronger. About 1900Z, 5R8GZ was operating a simplex pileup on 14.202. Nice steady operator. Lots of callers. He was working almost nothing but Canadians, some W1's, W9'S, and upper West Coast stations. They all said he was 57 to 59, and 5R8GZ was giving back like reports. At my QTH, he was about 32 at first and then the signal built to mayby 53 to 54. At that point I called him and got him through the pile on the second try and received a 57 report.

Looking at the the propagation program, I again observed this is a reasonable situation given that the receive lobe of the Hex-Beam is higher than the transmit beam lobe (TOA).

As I have said before, if I can hear (distant) DX, then I can work them, even in a simplex pile favoring others.

The Hex-Beam is just two elements, but it sure rocks!

73,
Barry W4WB

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[Non-text portions of this message have been removed]

2893. Re: Another "Hex-Beam" Experience

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-26 03:32:52 UTC
From: w4wb
Topic: 2891 Message: 2893

Hi Duke,

Great comments. I can tell you that I really like my 30-40 m Hex-Beam, need to get it back up in the air ... hopefully before Peter I DXpedition begins!

Your web site is too much! I can recommend it to other to view. Nice installation of the Hex-Beam.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Duke - NA1A" <na1a@n...> wrote:
>
> Well Barry, I echo your experience. Just two days ago, when I was on 20M with a station back in Virginia. A friend of mine joined into the QSO. This local friend was about 60 miles North of me in the Santa Monica mountains (near Malibu). He ran 1.5KW to a 6 element monobander up 60 ft. My HexBeam with the Alpha 87A also at full legal limit obtained the same signal strength report as my friend in the SM mountains.
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> The only other antenna I would consider now is a 40M HexBeam to improve over my Carolina Windom for that band...
> 73,
> Duke - NA1A
> Website: http://NA1A.US
>
> -- "w4wb" <w4wb@a...> wrote:
> FWIW, I had another of those interesting DX QSO's where the DX is
> weak and I'm a lot stronger. About 1900Z, 5R8GZ was operating a
> simplex pileup on 14.202. Nice steady operator. Lots of
callers.
> He was working almost nothing but Canadians, some W1's, W9'S, and
> upper West Coast stations. They all said he was 57 to 59, and
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> was giving back like reports. At my QTH, he was about 32 at first
> and then the signal built to mayby 53 to 54. At that point I
called
> him and got him through the pile on the second try and received a
57

> report.
>
> Looking at the the propagation program, I again observed this is a
> reasonable situation given that the receive lobe of the Hex-Beam
is
> higher than the transmit beam lobe (TOA).
>
> As I have said before, if I can hear (distant) DX, then I can work
> them, even in a simplex pile favoring others.
>
> The Hex-Beam is just two elements, but it sure rocks!
>
> 73,
> Barry W4WB
>
>
>
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> [Non-text portions of this message have been removed]
>

2894. Re: [hex-beam] Re: Another "Hex-Beam" Experience

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-26 03:43:24 UTC
From: bur52@aol.com
Topic: 2891 Message: 2894

Hi Gents..
Yes, I have been noticing the hex's ability to radiate a very potent signal too. Considering it size, and foot print. Very good Dx antenna. I always get better reports than I give...Hope it is not the antenna's ability to hear...rather a great low angle take off
73
happy holidays
kb3lxy

[Non-text portions of this message have been removed]

2895. Re: [hex-beam] Re: Another "Hex-Beam" Experience

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-26 14:47:03 UTC
From: Duke - NA1A
Topic: 2891 Message: 2895

John,
I noticed the same thing when I first put up the HexBeam. Prior to this antenna, I had a 2 element 5 band full size cubical quad by Lightning Bolt (Picture of the old quad can be seen on my website).
I remember with the quad, signal strength comparison against my Carolina Windom (mainly on receive) was about 2 S-unit (stronger on the quad). With the HexBeam, it was usually 3 to 4 S unit, rarely ever a 2 S unit different. A lot of time, I could not even hear the station with the Carolina Windom (or may very little trace of that station's existance), but on the HexBeam, that station was an S-5 somtimes even S-7. This occured over and over to a point where I thought something was wrong with the Carolina Windom...
Recently I put up a brand new HexBeam (HX5Bi) for Fred, N6SFD in Santa Monica, CA. He ran into several similar experiences as I did with his new HexBeam. He was originally planned to put up a 3 element SteppIR and decided against it because of costs, mechanical movements and a few other factors associated with it. He is now very happy that decision and is thrilled with the HexBeam every time he gets on. Freddie can be found on 17M so if you hear him, give him a hauler. Be ready to put on the attenuator :)
73,
Duke - NA1A
Website: http://NA1A.US

-- bur52@... wrote:
Hi Gents..
Yes, I have been noticing the hex's ability to radiate a very potent signal
too. Considering it size, and foot print. Very good Dx antenna. I always get
better reports than I give...Hope it is not the antenna's ability to
hear...rather a great low angle take off
73
happy holidays
kb3lxy

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

2896. RE: [hex-beam] Re: Another "Hex-Beam" Experience

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-26 22:45:57 UTC
From: TOM
Topic: 2891 Message: 2896

Hi All - Top of the Holidays!

I just assembled my HX5Bi on Sat 12/24 - took about 2 hours max to assemble. Currently sitting at 12 feet off the ground.

SWR is between 1.2 and 1.45 on all bands noted - even resonant on 52mhz (roughly 1.5 swr on the anritsu sitemaster , this might change when elevated.

In comparision to my Alpha - Delta Fan Dipole, I am atleast 2 S-units better in the forward direction than the dipole at 30feet. Rotor not installed as of yet, so I am sure this will improve once its 30+ feet up in the air - with the capability of rotating it in the optimum direction.

Tom
K2TC

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of Duke - NA1A
Sent: Monday, December 26, 2005 9:47 AM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] Re: Another "Hex-Beam" Experience

John,
I noticed the same thing when I first put up the HexBeam. Prior to this antenna, I had a 2 element 5 band full size cubical quad by Lightning Bolt (Picture of the old quad can be seen on my website).
I remember with the quad, signal strength comparison against my Carolina Windom (mainly on receive) was about 2 S-unit (stronger on the quad). With the HexBeam, it was usually 3 to 4 S unit, rarely ever a 2 S unit different. A lot of time, I could not even hear the station with the Carolina Windom (or may very little trace of that station's existance), but on the HexBeam, that station was an S-5 somtimes even S-7. This occured over and over to a point where I thought something was wrong with the Carolina Windom...
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Website: http://NA1A.US

-- bur52@... wrote:
Hi Gents..
Yes, I have been noticing the hex's ability to radiate a very potent signal

too. Considering it size, and foot print. Very good Dx antenna. I always get better reports than I give...Hope it is not the antenna's ability to hear...rather a great low angle take off
73
happy holidays
kb3lxy

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

2897. Re: [hex-beam] Re: Another "Hex-Beam" Experience

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-27 02:37:02 UTC
From: bur52@aol.com
Topic: 2891 Message: 2897

Hi
...U might want to try and use at that height. It will amaze you! I worked Europe on mine at 5 feet...LOL
JohnB

[Non-text portions of this message have been removed]

2898. Re: Another "Hex-Beam" Experience

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-27 15:44:16 UTC
From: Colin
Topic: 2891 Message: 2898

Mine is still only 11ft to the 20m element and is working great with
a meagre 10w.
The f/b probably suffers at low heights (which might actually be a
plus for a rotatorless hex) and, of course, the take off angle will
be higher, but it makes the contacts and that`s all that counts :)

Happy New Year 2006 to All
73 de Colin 2E0XBM
(ex M3XBM..one more exam to go)

--- In hex-beam@yahoogroups.com, bur52@a... wrote:
>
> Hi
> ...U might want to try and use at that height. It will amaze you! I
worked
> Europe on mine at 5 feet...LOL
> JohnB
>
>
> [Non-text portions of this message have been removed]
>

2899. Re: Another "Hex-Beam" Experience

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-27 17:13:36 UTC
From: richard
Topic: 2891 Message: 2899

I Have a 5 band 10-20 made for me by Holger dl7io, I have always suffered from high qrn here sometimes upto S9.
With the hex the qrn has virtually gone, I am now hearing stations that I cannot hear on the 1/2 size g5rv due to the qrn levels.
It is about 30 feet from the ground on a homebrew mast.
I havn't done to much txing but the few people I have called have answered me.
I normally use 15 watts digital modes and 25 watts ssb.

Just to be able to hear again is heaven for me :-)
I have a buddipole for /p work but now I have the hex I can work from home again.

Have Fun
Dick M0CLZ

2900. spreders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-27 17:39:53 UTC
From: xalunt
Topic: 2900 Message: 2900

I had a thought and wonder if anyone else has done this...Taking pvc tubing and wrap it with fiber glass and coating it with the var so it is stronger and holds up under the weather.Has anyone done this and do you think it would work ok ...Larry AG8O

2901. Re: [hex-beam] spreders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-27 19:16:54 UTC
From: Harold Burton
Topic: 2900 Message: 2901

----- Original Message -----
From: "xalunt" <ag8o1@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, December 27, 2005 11:39 AM
Subject: [hex-beam] spreders?

>I had a thought and wonder if anyone else has done this...Taking pvc
> tubing and wrap it with fiber glass and coating it with the var so it
> is stronger and holds up under the weather.Has anyone done this and do
> you think it would work ok ...Larry AG8O
>
>
If you wish to put the effort into it I'm sure it would probably work
OK. If you look in on some of the farm/ranch stores in your area you may
find fiberglass fence posts that will work well for you. In my own area
all you'll find is 3/8" x 48" fiberglass rod posts. In other areas you
may find 1/2" x 72" fiberglass posts. Those can work well for you. I
found a way to make the 4 foot 3/8" diameter posts work for me but, I'd
have much preferred the larger ones.

Harold
KD5SAK

2902. spreders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-28 19:05:37 UTC
From: xalunt
Topic: 2900 Message: 2902

I see max gain has spreders for $13.00 for 2 spreders 1 inch 8 footer and 1/2 inch 8 footer solid rod that will telescope to make required lenght for hexbeam .Has anyone used these spreders and did you have them cut to lower shipping cost or how did you do it .Any info on these spreders or web sites would be appreciated..Thanks Larry AG8O

2903. Re: [hex-beam] spreders? heres your anwser from a fellow ham

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-29 07:53:00 UTC
From: Kevin Adam N9IWW
Topic: 2900 Message: 2903

These are the Tubing dimensions I used that work out. They are from Max-Gain Systems, but only buy the 8 foot lengths, UPS will be considerable more, but the length and sizes work.
Qty. Size Length
6 3/4" 8 feet Tubing
3 1" 8 feet Tubing
1 1 1/4" 8 feet Tubing
1 1/2" 8 feet Tubing
Cut the 1 1/4" Tubing to make 6 pieces to go on your Hex base plate wirh U-Bolts and add the other sizes accordingly. By the way I used
1 1/4" U-Bolts and had to stretch them a little over a piece of barstock to fit over the Fiberglass Tubing. Only use the 1/2" tubing cut in 6 pieces if you need a little more curve at the end, it isn't necessary, some people like it better.
Wire I used was 14 Gauge Flex Weave 167 strand from Rf Davis, a little pricey but excellent wire for the project.
Band Driven Length Reflector Length End Spacings
20M 219" 222" 5" & 7"
17M 169" 172" 3.5" & 5.5"
15M 145" 148" 3.25" & 4.75"
12M 122" 124" 2.5" & 4.25"
10M 109" 111" 2.25" & 3.5"
These are usually within a couple of inches in being tuned correctly.

Mast Spacing (Approx.) From SO239
20M 1.25" 17M 17.625" 15M 22.625" 12M 27.88" 10M 30.25"
The bottom of the center section is wherever the 10M lines look straight. Go up from the with each to find all band straight rather than the mast spacing dimensions, they are close but may vary a little. Even if they are not straight the antenna still should work OK most of the time. Note the wire dimensions are for one leg side only, so you will need two of each of these cut. The Aluminum Hex plate I made was 12" and 5/16" thick, but 1/4" and 9.5" across the flats is good also. By the way you tip spacing at the top will be around 113" for 20 Meters wire. Now maybe this will give a few builders better insight. If anyone would like it I can tell you how to do the center pole and Feed connections too. Jerry Farek N5GND check out my photo section (N5GND)

http://www.fortwayneradioclub.org/members/n9iww/hexDimensions_tubing_wire.txt
N9IWW

On 28 Dec 2005 at 19:05, xalunt wrote:

> I see max gain has spreders for $13.00 for 2 spreders 1 inch 8 footer
> and 1/2 inch 8 footer solid rod that will telescope to make required
> lenght for hexbeam .Has anyone used these spreders and did you have
> them cut to lower shipping cost or how did you do it .Any info on
> these spreders or web sites would be appreciated..Thanks Larry AG8O

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>

2904. Re: [hex-beam] spreders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-28 19:35:32 UTC
From: n1zw
Topic: 2900 Message: 2904

I have not made the attempt yet , mainly because I am not sure what to use for the speaders. I too would like more info on what type of speader would be the best choice. From crappie poles to tapered lenths of telescopeing fiberglass, graphite rod. I can't afford the traffie one but, I am willing to at least give it a go to make my own. best 73 all
Robin n1zw
----- Original Message -----
From: xalunt
To: hex-beam@yahoogroups.com
Sent: Wednesday, December 28, 2005 2:05 PM
Subject: [hex-beam] spreders?

I see max gain has spreders for $13.00 for 2 spreders 1 inch 8 footer and 1/2 inch 8 footer solid rod that will telescope to make required lenght for hexbeam .Has anyone used these spreders and did you have them cut to lower shipping cost or how did you do it .Any info on these spreders or web sites would be appreciated..Thanks Larry AG8O

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2905. Re: [hex-beam] spreders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-28 02:44:18 UTC
From: Allen Clark
Topic: 2900 Message: 2905

yes i made one 10 Thur 20 meters and i used UV electric PVC (gray) from Lowe's about

9' foot long, and only about $ 2.50 each. you will have to support the ends with a good noly rope or string to the center post just above the top radial,

hope this help, oh buy the way if you e-mail me at w8alc51ham@...

this one is on the ground because i put up a Th6 beam, that x-beam i made from the direction on the yahoo groups page. i also win sweepstakes with it 1 year ago and it made it Thur the ice storm we had.

73 for know Allen
pataskala Ohio (your call is a 8 call, where are you form?)

xalunt <ag8o1@...> wrote:
I had a thought and wonder if anyone else has done this...Taking pvc tubing and wrap it with fiber glass and coating it with the var so it is stronger and holds up under the weather.Has anyone done this and do you think it would work ok ...Larry AG8O

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[Non-text portions of this message have been removed]

2906. Re: spreders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-30 04:33:23 UTC
From: Garry
Topic: 2900 Message: 2906

Havn't done it yet but I plan to. It's really not all that much work. I have used this method on 3 pieces of 1 1/2" water pipe to use as a support for an inverted vee and it did stiffen the pipe up plenty.

I purchased 6" wide strip of cloth then spiral wound it down the tubing. With a roller I rolled epoxy into the cloth and laid it out in such a fashion that it remained straight until the resin cured. Quick and easy enough and no waiting for something to be shipped in across the border or paying exhorbitant broker fees which sometimes happens.

I plan to use 3/4" part length and a 1/2" piece inserted into the end. Will let you know what I think when done. Oh yes I always paint the finished product black or dark green to allow it to blend in with the background trees.

Garry Ve7ajj

--- In hex-beam@yahoogroups.com, "xalunt" <ag8o1@p...> wrote:
>
> I had a thought and wonder if anyone else has done this...Taking pvc
> tubing and wrap it with fiber glass and coating it with the var so
it
> is stronger and holds up under the weather.Has anyone done this and
do
> you think it would work ok ...Larry AG8O
>

2907. Re: [hex-beam] Re: spreders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-30 16:26:46 UTC
From: Harold Burton
Topic: 2900 Message: 2907

```
----- Original Message -----
From: "Garry" <gschumac1@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, December 29, 2005 10:33 PM
Subject: [hex-beam] Re: spreders?

> Havn't done it yet but I plan to. It's really not all that much work.
> I have used this method on 3 pieces of 1 1/2" water pipe to use as a
> support for an inverted vee and it did stiffen the pipe up plenty.
>
> I purchased 6" wide strip of cloth then spiral wound it down the
> tubing. With a roller I rolled epoxy into the cloth and laid it out
> in such a fashion that it remained straight until the resin cured.
> Quick and easy enough and no waiting for something to be shipped in
> across the border or paying exhorbitant broker fees which sometimes
> happens.
>
> I plan to use 3/4" part length and a 1/2" piece inserted into the end.
> Will let you know what I think when done. Oh yes I always paint the
> finished product black or dark green to allow it to blend in with the
> background trees.
>
> Garry Ve7ajj
>
>
Check your local Farm/Ranch stores for fiberglass rod electric fence
posts ( plain solid fiberglass rod with slightly pointed ends). If you
are lucky you'll find they stock 1/2" x 72"
posts and you'll easily figure a way to splice them to use as Hexbeam
spreaders. Stores in my southern Oklahoma area were only stocking
shorter 3/8" x 48" posts but I was able to use them for my 20 meter
monobanf Hexbeam.

Harold
KD5SAK
```

2908. Re: [hex-beam] spreders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2005-12-31 13:10:51 UTC
From: buysmart2002
Topic: 2900 Message: 2908

I have built a hexbeam using crappie poles and documented it at
www.leoshoemaker.com/k4kio.html

73, Leo K4KIO

n1zw <n1zw@...> wrote:
I have not made the attempt yet , mainly because I am not sure what to use for the speaders. I too would like more info on what type of speader would be the best choice. From crappie poles to tapered lenths of telescopeing fiberglass, graphite rod. I can't afford the traffie one but, I am willing to at least give it a go to make my own. best 73 all
Robin n1zw
----- Original Message -----
From: xalunt
To: hex-beam@yahoogroups.com
Sent: Wednesday, December 28, 2005 2:05 PM
Subject: [hex-beam] spreders?

I see max gain has spreders for $13.00 for 2 spreders 1 inch 8 footer
and 1/2 inch 8 footer solid rod that will telescope to make required
lenght for hexbeam .Has anyone used these spreders and did you have
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2909. Yet Another Homebrew Hex Web Site

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-01 00:53:19 UTC
From: Dave
Topic: 2900 Message: 2909

I'm finally reaching the end of my long hex antenna building project. The 5 bander (20-10m) antenna working, and the web site is up at http://www.zievid.com/W6OT/Hex/Beam.htm with some pictures, graphs and description.

So far the results are good. It's several S units better than my Hustler 5BTV vertical, which is up 15' on a 30x80 metal roof. I haven't rasied the antenna to it's full height yet, so it should get better with another 20' elevation or so. I'm really happy with it.

There are two interesting things about this particular antenna:

a) I used 4' fiberglass tubing from MaxGain, so the shipping costs were reasonable. The web site has the details on how I joined the tubes.

b) I had trouble with feedlines between bands (couldn't get it to play on all 5 bands). I tried several different sets of wires close together as others have described, but I ended up using RG-213 between the wires. This worked great - the difference was measurable, and all 5 bands are now happy. If you're having trouble getting all bands to work, give this a try.

I have a spreadsheet and CSV files on the site if anyone wants to model it in EZNEC. The 12m pattern is a bit off - the gain models slightly higher off the back, so I'll try playing with that and see if I can get it to point in the right direction.

Have a Happy New Year!

- Dave
W6OT

2910. Re: [hex-beam] Yet Another Homebrew Hex Web Site

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-01 01:54:38 UTC
From: buysmart2002
Topic: 2900 Message: 2910

Congrats, Dave on the new hexbeam.

And great web site. I know it will be helpful to a lot of others.

73, Leo, K4KIO

Dave <dave@...> wrote:
I'm finally reaching the end of my long hex antenna building project.
The 5 bander (20-10m) antenna working, and the web site is up at
http://www.zievid.com/W6OT/Hex/Beam.htm with some pictures, graphs and
description.

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Hustler 5BTV vertical, which is up 15' on a 30x80 metal roof. I haven't
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it in EZNEC. The 12m pattern is a bit off - the gain models slightly
higher off the back, so I'll try playing with that and see if I can get
it to point in the right direction.

Have a Happy New Year!

- Dave
W6OT

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2911. Re: [hex-beam] Yet Another Homebrew Hex Web Site

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-01 02:31:09 UTC
From: tim lindstrom
Topic: 2900 Message: 2911

Good looking antenna, Dave! I have found that my home brew will tune up nicely on 40 meters as well. Home brewed for 20,15 and 6 meters. Not one to make things perfect or maybe just tinkering... I mounted the antenna on a small 20 foot pushup tower. And that isn't cemented into the ground either.. So today I tightened up the bolt that presses on the inner pipe. the rotor wasn't just turning the antenna but also the lower section! Aha!
Still the antenna works great! I do have the hustler vertical and its sure nice to be heard instead of being in or just above the noise floor of each band!
also this group has been a good help for the tinkerers, eh?
Happy and prosperous antenna building for 06!

73, tim lindstrom, ab0ts

buysmart2002 <buysmart2002@...> wrote:
Congrats, Dave on the new hexbeam.

And great web site. I know it will be helpful to a lot of others.

73, Leo, K4KIO

Dave <dave@...> wrote:
I'm finally reaching the end of my long hex antenna building project.
The 5 bander (20-10m) antenna working, and the web site is up at
http://www.zievid.com/W6OT/Hex/Beam.htm with some pictures, graphs and
description.

So far the results are good. It's several S units better than my
Hustler 5BTV vertical, which is up 15' on a 30x80 metal roof. I haven't
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higher off the back, so I'll try playing with that and see if I can get
it to point in the right direction.

Have a Happy New Year!

- Dave
W6OT

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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

2912. Re: [hex-beam] Yet Another Homebrew Hex Web Site

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-01 04:57:03 UTC
From: n1zw
Topic: 2900 Message: 2912

Hi Dave very nice looking antenna you have done. Looks really well built. I wish you great success with it and hope to someday join the rest of you homebrew hexbeamers... Robin n1zw
----- Original Message -----
From: Dave
To: hex-beam@yahoogroups.com
Sent: Saturday, December 31, 2005 7:53 PM
Subject: [hex-beam] Yet Another Homebrew Hex Web Site

I'm finally reaching the end of my long hex antenna building project. The 5 bander (20-10m) antenna working, and the web site is up at http://www.zievid.com/W6OT/Hex/Beam.htm with some pictures, graphs and description.

So far the results are good. It's several S units better than my Hustler 5BTV vertical, which is up 15' on a 30x80 metal roof. I haven't rasied the antenna to it's full height yet, so it should get better with another 20' elevation or so. I'm really happy with it.

There are two interesting things about this particular antenna:

a) I used 4' fiberglass tubing from MaxGain, so the shipping costs were reasonable. The web site has the details on how I joined the tubes.

b) I had trouble with feedlines between bands (couldn't get it to play on all 5 bands). I tried several different sets of wires close together as others have described, but I ended up using RG-213 between the wires. This worked great - the difference was measurable, and all 5 bands are now happy. If you're having trouble getting all bands to work, give this a try.

I have a spreadsheet and CSV files on the site if anyone wants to model it in EZNEC. The 12m pattern is a bit off - the gain models slightly higher off the back, so I'll try playing with that and see if I can get it to point in the right direction.

Have a Happy New Year!

- Dave
W6OT

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Ferrite bead

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[Non-text portions of this message have been removed]

2913. Re: Yet Another Homebrew Hex Web Site

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-01 17:52:45 UTC
From: Colin
Topic: 2900 Message: 2913

Hi Dave,
Congrats on the completion of your hexbeam and your very informative
website.
A great way to start 2006!

Happy New Year

Colin 2E0XBM

--- In hex-beam@yahoogroups.com, Dave <dave@z...> wrote:
>
> I'm finally reaching the end of my long hex antenna building
project.
> The 5 bander (20-10m) antenna working, and the web site is up at
> http://www.zievid.com/W6OT/Hex/Beam.htm with some pictures, graphs
and
> description.
>
> So far the results are good. It's several S units better than my
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> rasied the antenna to it's full height yet, so it should get better
with
> another 20' elevation or so. I'm really happy with it.
>
> There are two interesting things about this particular antenna:
>
> a) I used 4' fiberglass tubing from MaxGain, so the shipping costs
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tubes.
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> b) I had trouble with feedlines between bands (couldn't get it to
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> on all 5 bands). I tried several different sets of wires close
together
> as others have described, but I ended up using RG-213 between the
> wires. This worked great - the difference was measurable, and all
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> bands are now happy. If you're having trouble getting all bands to
> work, give this a try.
>
> I have a spreadsheet and CSV files on the site if anyone wants to
model
> it in EZNEC. The 12m pattern is a bit off - the gain models
slightly

> higher off the back, so I'll try playing with that and see if I can
get
> it to point in the right direction.
>
> Have a Happy New Year!
>
> - Dave
> W6OT
>

2914. Re: Yet Another Homebrew Hex Web Site

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-01 19:19:36 UTC
From: n3gnw
Topic: 2900 Message: 2914

Great job and nice site.

Did you have to have Max-Gain cut down 8 foot lengths? I don't see
the sizes you mention available in 4 foot lengths.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, Dave <dave@z...> wrote:
>
> I'm finally reaching the end of my long hex antenna building
project.
> The 5 bander (20-10m) antenna working, and the web site is up at
> http://www.zievid.com/W6OT/Hex/Beam.htm with some pictures, graphs
and
> description.
>
> So far the results are good. It's several S units better than my
> Hustler 5BTV vertical, which is up 15' on a 30x80 metal roof. I
haven't
> rasied the antenna to it's full height yet, so it should get
better with
> another 20' elevation or so. I'm really happy with it.
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> There are two interesting things about this particular antenna:
>
> a) I used 4' fiberglass tubing from MaxGain, so the shipping
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> reasonable. The web site has the details on how I joined the
tubes.
>
> b) I had trouble with feedlines between bands (couldn't get it to
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> on all 5 bands). I tried several different sets of wires close
together
> as others have described, but I ended up using RG-213 between the
> wires. This worked great - the difference was measurable, and all
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> bands are now happy. If you're having trouble getting all bands
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> work, give this a try.
>
> I have a spreadsheet and CSV files on the site if anyone wants to
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> it in EZNEC. The 12m pattern is a bit off - the gain models
slightly

> higher off the back, so I'll try playing with that and see if I can get
> it to point in the right direction.
>
> Have a Happy New Year!
>
> - Dave
> W6OT
>

2915. Re: [hex-beam] Re: Yet Another Homebrew Hex Web Site

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-01 20:20:21 UTC
From: Dave
Topic: 2900 Message: 2915

Yes, Max-Gain will cut their 8' lengths in half. I forget the exact cost of each cut, but it's around a dollar or so. I don't think they sell the 4' sections individually, so you have to buy 8' ones plus the cut and get 2 4' poles.

I think it's buried in the site somewhere, but if I was going to do it over again, I would use 1", 3/4" and 1/2" tubing. You'd need to get 3 8' tubes of each size, and have them all cut in half. Then for the joints, cut 1" sections from the 1" and 3/4" tubes to glue onto the next smaller tubes as stoppers. I ended up with an odd combination because I originally tried 1/4" rod at the tips, and that's not strong enough.

Thanks to everyone for the nice compliments. I really enjoyed this project and hope the info can help others in their building. It's great to have a direction antenna now.

- Dave
W6OT

n3gnw wrote:

>Great job and nice site.
>
>Did you have to have Max-Gain cut down 8 foot lengths? I don't see
>the sizes you mention available in 4 foot lengths.
>
>73,
>Mark N3GNW
>
>--- In hex-beam@yahoogroups.com, Dave <dave@z...> wrote:
>
>
>>I'm finally reaching the end of my long hex antenna building
>>
>>
>project.
>
>
>>The 5 bander (20-10m) antenna working, and the web site is up at
>>http://www.zievid.com/W6OT/Hex/Beam.htm with some pictures, graphs
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>and
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>>description.
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>>So far the results are good. It's several S units better than my
>>Hustler 5BTV vertical, which is up 15' on a 30x80 metal roof. I
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>play
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>>on all 5 bands). I tried several different sets of wires close
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>together
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>>as others have described, but I ended up using RG-213 between the
>>wires. This worked great - the difference was measurable, and all
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>

>>bands are now happy. If you're having trouble getting all bands
>>
>>
>to
>
>
>>work, give this a try.
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>>I have a spreadsheet and CSV files on the site if anyone wants to
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>model
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>>it in EZNEC. The 12m pattern is a bit off - the gain models
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>slightly
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>>higher off the back, so I'll try playing with that and see if I
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>can get
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>>it to point in the right direction.
>>
>>Have a Happy New Year!
>>
>> - Dave
>> W6OT
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2916. Which antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-01 20:11:51 UTC
From: yash@aol.com
Topic: 2916 Message: 2916

Hi to all.
Just set up my new 40 ft. tower , Iam in southwest Florida...cape coral. Need to choose a new antenna. The tower is alum as is the mast and I @64 can nest it and tilt it to the ground...myself... so need to keep the total weight down. Also I have only about a 10 foot turning radius to be able to keep things, on my own property. All that being said,I have narrowed things down to the cushcraft ma5b and the multi band hex beam. I have owned the ma5b while I lived north ..worked very well. All I know about the hex is what I read on the net. some very good and some VERY hard to believe. The biggest factor is the 350.00 versus the 1000.00 for the hex. Since I do not have acess toparts to try to build one or the ambition...have found no complete kits anywhere ,I guess Iam limited to the factory built antenna @1000.00
My question is ... the hex worth twice the cost of the ma5b. ? Is it going to provide that much greater performance?
I realize this is the hex group,so please don't flame me on this ,Iam serious about the question and what ever answers I receive.
happy new year to all
thanks
dale wt4t

2917. Re: Which antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-02 01:15:37 UTC
From: w4wb
Topic: 2916 Message: 2917

In a word, YES!
HNY es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, yash@a... wrote:
>
> Hi to all.
> Just set up my new 40 ft. tower , Iam in southwest
Florida...cape
> coral. Need to choose a new antenna. The tower is alum as is the
mast
> and I @64 can nest it and tilt it to the ground...myself... so
need to
> keep the total weight down. Also I have only about a 10 foot
turning
> radius to be able to keep things, on my own property. All that
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> said,I have narrowed things down to the cushcraft ma5b and the
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> band hex beam. I have owned the ma5b while I lived north ..worked
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> well. All I know about the hex is what I read on the net. some
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> good and some VERY hard to believe. The biggest factor is the
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> My question is ... the hex worth twice the cost of the ma5b. ?
Is it
> going to provide that much greater performance?
> I realize this is the hex group,so please don't flame me on
this ,Iam
> serious about the question and what ever answers I receive.
> happy new year to all
> thanks
> dale wt4t
>

2918. Re: [hex-beam] Which antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-02 01:17:13 UTC
From: bur52@aol.com
Topic: 2916 Message: 2918

I have the Traffie 5 band hex at 42 feet. It works extremely well !

I wish I wopuld have waited, and home brewed one. But at the time I was traveling a lot..and time was not at my disposal. But I find the hex super !
JohnB

[Non-text portions of this message have been removed]

2919. Re: [hex-beam] Re: Which antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-02 04:23:19 UTC
From: Pieter & Petro du Toit
Topic: 2916 Message: 2919

HI Dale, you can do no better than a hexbeam, nice small and compact ,works very good I brought mine with me out of zs to nz
I'm not old only enjoying the traveling life !!
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Monday, January 02, 2006 2:15 PM
Subject: [hex-beam] Re: Which antenna

In a word, YES!
HNY es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, yash@a... wrote:
>
> Hi to all.
> Just set up my new 40 ft. tower , Iam in southwest
Florida...cape
> coral. Need to choose a new antenna. The tower is alum as is the
mast
> and I @64 can nest it and tilt it to the ground...myself... so
need to
> keep the total weight down. Also I have only about a 10 foot
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> radius to be able to keep things, on my own property. All that
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> said,I have narrowed things down to the cushcraft ma5b and the
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> band hex beam. I have owned the ma5b while I lived north ..worked
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> well. All I know about the hex is what I read on the net. some
very
> good and some VERY hard to believe. The biggest factor is the
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> versus the 1000.00 for the hex. Since I do not have acess toparts
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> try to build one or the ambition...have found no complete kits
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> happy new year to all
> thanks
> dale wt4t
>

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2920. Re: [hex-beam] Which antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-02 15:11:02 UTC
From: Dave
Topic: 2916 Message: 2920

We're obviously biased here, but I would go for the Hex. The MA5B has particularly narrow bandwidth (*VSWR 2:1 Bandwidth: * 665, 110, 255, 100 and 90 kHz. - numbers from Universal Radio's site) so if you like to move around on the bands I think the hex is much better.

The commercial HexBeam's claimed SWR curves are here: http://www.hexbeam.com/performance.shtml and cover the whole bands.

HTH es HYN es 73,
- Dave
W6OT

yash@... wrote:

>Hi to all.
> Just set up my new 40 ft. tower , Iam in southwest Florida...cape
>coral. Need to choose a new antenna. The tower is alum as is the mast
>and I @64 can nest it and tilt it to the ground...myself... so need to
>keep the total weight down. Also I have only about a 10 foot turning
>radius to be able to keep things, on my own property. All that being
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>band hex beam. I have owned the ma5b while I lived north ..worked very
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>good and some VERY hard to believe. The biggest factor is the 350.00
>versus the 1000.00 for the hex. Since I do not have acess toparts to
>try to build one or the ambition...have found no complete kits anywhere
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> My question is ... the hex worth twice the cost of the ma5b. ? Is it
>going to provide that much greater performance?
> I realize this is the hex group,so please don't flame me on this ,Iam
>serious about the question and what ever answers I receive.
> happy new year to all
> thanks
> dale wt4t
>
>
>
>
>

2921. Re: WT4T and his new tower

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-02 15:58:29 UTC
From: ownsyar
Topic: 2921 Message: 2921

Hi Dale,
I am curious about your aluminum 40 ft. tower. Since you can raise and lower it by yourself, what Model and Brand is it? Sounds like it might be a Universal 40 ft. 4 sq. ft load. I have been looking into something similar.
Thanks
Allen KA5N

2922. Re: Which antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-02 18:01:44 UTC
From: k4ten
Topic: 2916 Message: 2922

I think it is worth the difference.

With the Hexbeam you will have gain on 12 and 17 that the Cushcraft does not offer. I think the Hexbeam performs better on 10, 15, and 20 too.

You will also have a better built antenna that will be able to stand up to stronger winds. No traps either!

I had to swallow real hard before I plunked down my hard earned cash to send off for a Hexbeam. I have no regrets now... Other than waiting for so long....

I have never heard of someone who regretted getting a Hexbeam.

Frankie
K4TEN

--- In hex-beam@yahoogroups.com, yash@a... wrote:
>
> Hi to all.
> Just set up my new 40 ft. tower , Iam in southwest Florida...cape
> coral. Need to choose a new antenna. The tower is alum as is the mast
> and I @64 can nest it and tilt it to the ground...myself... so need to
> keep the total weight down. Also I have only about a 10 foot turning
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> My question is ... the hex worth twice the cost of the ma5b. ? Is it
> going to provide that much greater performance?
> I realize this is the hex group,so please don't flame me on this ,Iam
> serious about the question and what ever answers I receive.
> happy new year to all
> thanks
> dale wt4t
>

2923. Re: [hex-beam] Re: Which antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-02 18:23:36 UTC
From: Duke - NA1A
Topic: 2916 Message: 2923

I just recently installed and replace a virtually new MA5B for Fred (N6SFD). He is now using the HX5Bi and is loving it. Fred says it is a NIGHT & DAY different b/w the two antenna. The MA5B is now sitting on his roof top not doing much. Fred is selling it. If you're thinking about picking one up, contact N6SFD at daugie@...

73,
Duke - NA1A

-- "k4ten" <k4ten@...> wrote:
I think it is worth the difference.

With the Hexbeam you will have gain on 12 and 17 that the Cushcraft
does not offer. I think the Hexbeam performs better on 10, 15, and 20
too.

You will also have a better built antenna that will be able to stand
up to stronger winds. No traps either!

I had to swallow real hard before I plunked down my hard earned cash
to send off for a Hexbeam. I have no regrets now... Other than
waiting for so long....

I have never heard of someone who regretted getting a Hexbeam.

Frankie
K4TEN

--- In hex-beam@yahoogroups.com, yash@a... wrote:
>
> Hi to all.
> Just set up my new 40 ft. tower , Iam in southwest Florida...cape
> coral. Need to choose a new antenna. The tower is alum as is the mast
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> keep the total weight down. Also I have only about a 10 foot turning
> radius to be able to keep things, on my own property. All that being
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> happy new year to all

> thanks
> dale wt4t
>

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<!-- |**|end egp html banner|**| -->at

[Non-text portions of this message have been removed]

2924. Re: [hex-beam] Re: WT4T and his new tower

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-02 23:04:52 UTC
From: yash@aol.com
Topic: 2921 Message: 2924

ALLEN
The tower is a aluma tower,made near tampa florida. It is a 41 foot tower that cranks down to 20 feet,then folds over. Very well made aircraft alum. using a tight welded support structure between the 3 legs. I have a 4x4 alum post 6 feet into the ground and it stands 6 feet high above the ground. the tower has a heavy welded base that is bolted to a 2x2x 20 concrete base via 3 3/8 ss threaded rods embeded in the cement base. that pivits on 2 of the back legs and you can walk it down as easy as a ladder. total weight about 80 lbs. when raised he tower clamps onto the 4x4 post and with a coupla of brackets, it is solid as a rock. Took me only a day to set the 4x4 post and pour the base for the tower ... 6 bags... 60# cement mix total.

thanks
dale wt4t

-----Original Message-----
From: ownsyar <ownsyar@...>
To: hex-beam@yahoogroups.com
Sent: Mon, 02 Jan 2006 15:58:29 -0000
Subject: [hex-beam] Re: WT4T and his new tower

Hi Dale,
I am curious about your aluminum 40 ft. tower. Since you can raise and lower it by yourself, what Model and Brand is it? Sounds like it might be a Universal 40 ft. 4 sq. ft load. I have been looking into something similar.
Thanks
Allen KA5N

Yahoo! Groups Links

2925. Re: [hex-beam] Re: Which antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-02 23:18:00 UTC
From: yash@aol.com
Topic: 2916 Message: 2925

I want to thank all who gave me all the great info on the hex beam.
thanks for taking the time. I am pretty sure I will go with the hex
beam...multi band... now to find the cash
thanks again
dale mwt4t

-----Original Message-----
From: Pieter & Petro du Toit <zs1pdt@...>
To: hex-beam@yahoogroups.com
Sent: Mon, 2 Jan 2006 17:23:19 +1300
Subject: Re: [hex-beam] Re: Which antenna

HI Dale, you can do no better than a hexbeam, nice small and compact
,works very
good I brought mine with me out of zs to nz
I'm not old only enjoying the traveling life !!
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Monday, January 02, 2006 2:15 PM
Subject: [hex-beam] Re: Which antenna

In a word, YES!
HNY es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, yash@a... wrote:
>
> Hi to all.
> Just set up my new 40 ft. tower , Iam in southwest
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Is it
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> I realize this is the hex group,so please don't flame me on
this ,Iam
> serious about the question and what ever answers I receive.
> happy new year to all
> thanks
> dale wt4t
>

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

2926. Re: [hex-beam] torroid use

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-02 23:37:13 UTC
From: Transpacific
Topic: 2926 Message: 2926

I just ordered my Hex Beam. Mr Traffie suggests 6 type 77 toroids on the coax. The type he sells though, you need to cut off the PL259 and then reinstall. Anyone using a snap-on product that gives equal or better results? who/what/where?

Tom KE7BYC

----- Original Message -----
From: Duke - NA1A
To: hex-beam@yahoogroups.com
Sent: Monday, January 02, 2006 10:23 AM
Subject: Re: [hex-beam] Re: Which antenna

I just recently installed and replace a virtually new MA5B for Fred (N6SFD). He is now using the HX5Bi and is loving it. Fred says it is a NIGHT & DAY different b/w the two antenna. The MA5B is now sitting on his roof top not doing much. Fred is selling it. If you're thinking about picking one up, contact N6SFD at daugie@...

73,
Duke - NA1A

-- "k4ten" <k4ten@...> wrote:
I think it is worth the difference.

With the Hexbeam you will have gain on 12 and 17 that the Cushcraft
does not offer. I think the Hexbeam performs better on 10, 15, and 20
too.

You will also have a better built antenna that will be able to stand
up to stronger winds. No traps either!

I had to swallow real hard before I plunked down my hard earned cash
to send off for a Hexbeam. I have no regrets now... Other than
waiting for so long....

I have never heard of someone who regretted getting a Hexbeam.

Frankie
K4TEN

--- In hex-beam@yahoogroups.com, yash@a... wrote:
>
> Hi to all.
> Just set up my new 40 ft. tower , Iam in southwest Florida...cape
> coral. Need to choose a new antenna. The tower is alum as is the mast
> and I @64 can nest it and tilt it to the ground...myself... so need to
> keep the total weight down. Also I have only about a 10 foot turning
> radius to be able to keep things, on my own property. All that being
> said,I have narrowed things down to the cushcraft ma5b and the multi

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> well. All I know about the hex is what I read on the net. some very
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> going to provide that much greater performance?
> I realize this is the hex group,so please don't flame me on this ,Iam
> serious about the question and what ever answers I receive.
> happy new year to all
> thanks
> dale wt4t
>

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[Non-text portions of this message have been removed]

2927. Re: WT4T and his new tower

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-03 00:19:13 UTC
From: ownsyar
Topic: 2921 Message: 2927

-Hi Dale,
Thanks, that clears things up. Sounds like a neat installation. I
checked out the Aluma web site. I had looked there before but
hadn't noticed the 4X4 aluminum post which makes a big difference.
Should be great to be able to let it down when the wind starts up in
Florida.
73
Allen KA5N

-- In hex-beam@yahoogroups.com, yash@a... wrote:
>
> ALLEN
> The tower is a aluma tower,made near tampa florida. It is a 41
foot
> tower that cranks down to 20 feet,then folds over. Very well made
> aircraft alum. using a tight welded support structure between the
3
> legs. I have a 4x4 alum post 6 feet into the ground and it stands
6
> feet high above the ground. the tower has a heavy welded base that
is
> bolted to a 2x2x 20 concrete base via 3 3/8 ss threaded rods
embeded in
> the cement base. that pivits on 2 of the back legs and you can
walk it
> down as easy as a ladder. total weight about 80 lbs. when raised
he
> tower clamps onto the 4x4 post and with a coupla of brackets, it
is
> solid as a rock. Took me only a day to set the 4x4 post and pour
the
> base for the tower ... 6 bags... 60# cement mix total.
>
> thanks
> dale wt4t
>
> -----Original Message-----
> From: ownsyar <ownsyar@y...>
> To: hex-beam@yahoogroups.com
> Sent: Mon, 02 Jan 2006 15:58:29 -0000
> Subject: [hex-beam] Re: WT4T and his new tower
>
> Hi Dale,
> I am curious about your aluminum 40 ft. tower. Since you can raise
> and lower it by yourself, what Model and Brand is it? Sounds like

it
> might be a Universal 40 ft. 4 sq. ft load. I have been looking
into
> something similar.
> Thanks
> Allen KA5N
>
>
>
>
>
>
> Yahoo! Groups Links
>

2928. Re: [hex-beam] torroid use

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-03 00:40:32 UTC
From: Duke - NA1A
Topic: 2926 Message: 2928

Dale,
After reading your article below, I think the HX5Bi is your best choice. I'm in the same situation as you are and that is, I only have just about 10ft of turning radius to one side. The other side, I have plenty of room. This is because where my tower is located (has to be hidden from any windows of the house).
Prior to using this HexBeam, I had the 5 bander cubical quad by Lightning Bolt on this very same tower, the TriEx W51. Excellent antenna, but it protruded over the property line by about 5 ft. After two and a half years, things got ugly with the neighbor so I took it down.
The HexBeam is now mounted on a boom which offset the mounting 5 ft away from the tower. The guy next door can't complaint anymore. I have no windload on the antenna and haven't found any less performance as compare to the 2 element full size cubical quad.
The only complain I have is the damn antenna is too expensive. I got mine used (a year old when I got it) for $500. This should be the price for a brand new one. The Lightning Bolt 5 band quad is only $300!
If Traffie would drop their prices lower, they would make a hella killing with the sales. I think their steep price is not helping their sales too much. As a matter of fact, for a fraction more, one can get a 3 element SteppIR...

73,
Duke - NA1A
Website: http://NA1A.US

--- In hex-beam@yahoogroups.com, yash@a... wrote:
>
> Hi to all.
> Just set up my new 40 ft. tower , Iam in southwest Florida...cape
> coral. Need to choose a new antenna. The tower is alum as is the mast
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> said,I have narrowed things down to the cushcraft ma5b and the multi
> band hex beam. I have owned the ma5b while I lived north ..worked very
> well. All I know about the hex is what I read on the net. some very
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> ,I guess Iam limited to the factory built antenna @1000.00
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> happy new year to all
> thanks
> dale wt4t

>

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[Non-text portions of this message have been removed]

2929. Re: [hex-beam] Re: Which antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-03 04:04:34 UTC
From: buysmart2002
Topic: 2916 Message: 2929

Dale:

You ought to be able to build a five band hexbeam for under $200 with a little effort. Many on this user group have done it. Mine cost less than $150 using crappie fishing poles.

73,

Leo, K4KIO

yash@... wrote:
I want to thank all who gave me all the great info on the hex beam.
thanks for taking the time. I am pretty sure I will go with the hex
beam...multi band... now to find the cash
thanks again
dale mwt4t

-----Original Message-----
From: Pieter & Petro du Toit <zs1pdt@...>
To: hex-beam@yahoogroups.com
Sent: Mon, 2 Jan 2006 17:23:19 +1300
Subject: Re: [hex-beam] Re: Which antenna

HI Dale, you can do no better than a hexbeam, nice small and compact
,works very
good I brought mine with me out of zs to nz
I'm not old only enjoying the traveling life !!
----- Original Message -----
From: w4wb
To: hex-beam@yahoogroups.com
Sent: Monday, January 02, 2006 2:15 PM
Subject: [hex-beam] Re: Which antenna

In a word, YES!
HNY es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, yash@a... wrote:
>
> Hi to all.
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2930. RE: [hex-beam] torroid use

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-03 00:20:47 UTC
From: Jim Chaggaris
Topic: 2926 Message: 2930

Tom:

Your best bet is to cut off the pl259 and slip at least 6 (or more) beads.
I usually use 3M 33 or 88 tape then use liquid tape over that.

The snap on beads won't be as effective since each bead should be physically
touching the others.

73's

Jim KJ9A

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 110
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241

From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf
Of Transpacific
Sent: Monday, January 02, 2006 5:37 PM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] torroid use

I just ordered my Hex Beam. Mr Traffie suggests 6 type 77 toroids on the
coax. The type he sells though, you need to cut off the PL259 and then
reinstall. Anyone using a snap-on product that gives equal or better
results? who/what/where?

Tom KE7BYC

----- Original Message -----
From: Duke - NA1A
To: hex-beam@yahoogroups.com
Sent: Monday, January 02, 2006 10:23 AM
Subject: Re: [hex-beam] Re: Which antenna

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Duke - NA1A

-- "k4ten" <k4ten@...> wrote:
I think it is worth the difference.

With the Hexbeam you will have gain on 12 and 17 that the Cushcraft
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You will also have a better built antenna that will be able to stand
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to send off for a Hexbeam. I have no regrets now... Other than
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I have never heard of someone who regretted getting a Hexbeam.

Frankie
K4TEN

--- In hex-beam@yahoogroups.com, yash@a... wrote:
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3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4&s=78&.sig=nophR1-h7ShXYe5gy8M6W
Q> radio

Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4&s=78&.sig=635Q0aH_KfGQMHA8eL0
aLw> hobby

Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4&s=78&.sig=FnsugybL
K5zQ_ysmpJeBKQ> and craft supply

Ferrite
<http://groups.yahoo.com/gads?t=ms&k=Ferrite+bead&w1=Ham+radio&w2=Craft+hobb
y&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4&s=78&.sig=RII4nPQG0W5fxnRTgz
D_lg> bead

_____

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[Non-text portions of this message have been removed]

2931. Re: torroid use

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-03 07:37:31 UTC
From: w4wb
Topic: 2926 Message: 2931

Tom,

I sure you will be happy with the "real" Hex-Beam. It is worth the money IMO. Sure, one can build one using plywood, fishing poles, and perhaps duck tape, but Traffie's antennas are first-class and will last for years and years. I also note that his are tuned a bit differently than those homebrew ones using the formulas he published over a decade ago. Mike has spent literally thousands of hours over the years learning how to make his antennas perform optimally. And yes, it does make a difference. My special 30-40 m Hex-Beam took him a lot of effort to make it really "sing" on both bands, and sing it does!

To my knowledge, there are no snap-on versions of the Type 73 or 77. I have seen some folks represent that they have such items, but when push comes to shove, they can't verify the material. Almost always, the snap-on ones are Type 43, plus the snap-on ones can harm your coax over time. Frankly, it is no big deal to put on a new coax connector. You can also make a jumper of about say 6' with the beads on it and use a female-female coax connector to your main feed line. Use Coax-Seal or the like of course. FWIW, I use heat shrink to hold my beads in place.

You can also get the beads directly from Amidon.

Enjoy es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@c...>
wrote:
>
> I just ordered my Hex Beam. Mr Traffie suggests 6 type 77 toroids
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> Tom KE7BYC
>
> ----- Original Message -----
> From: Duke - NA1A
> To: hex-beam@yahoogroups.com
> Sent: Monday, January 02, 2006 10:23 AM
> Subject: Re: [hex-beam] Re: Which antenna
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>
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> Duke - NA1A
>
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> Frankie
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>
>
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> Version: 7.1.371 / Virus Database: 267.14.10/218 - Release Date:
1/2/2006
>
>
> [Non-text portions of this message have been removed]
>

2932. does a hexbeam need a rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-05 20:44:51 UTC
From: desmoface
Topic: 2932 Message: 2932

Hey gang, looking at the pics at hexbeam's website, it appears that the antenna is omni-directional but it says it needs a lightweight rotor? Am I missing something? Im a hexbeam newbie, of course LOL..thanks in advance.

Steve
kb8viv

2933. Re: does a hexbeam need a rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-06 10:02:35 UTC
From: Colin
Topic: 2932 Message: 2933

Hi Steve,
You may be thinking of the cobbweb type antenna,which is omnidirectional.
The hexbeam is essentially a mono or multiband 2 element wire yagi folded into a more compact geometry.
The pattern is quite broad but directional so a rotator is required. In my experience the sharp side nulls of a monoband Hex especially, can be very deep ie: well over 30db+

73
Colin 2E0XBM

--- In hex-beam@yahoogroups.com, "desmoface" <desmoface@y...> wrote:
>
> Hey gang, looking at the pics at hexbeam's website, it appears that the
> antenna is omni-directional but it says it needs a lightweight rotor?
> Am I missing something? Im a hexbeam newbie, of course LOL..thanks in
> advance.
>
> Steve
> kb8viv
>

2934. Re: [hex-beam] does a hexbeam need a rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-06 20:53:26 UTC
From: richard
Topic: 2932 Message: 2934

Not omni directional, it is a 2 ele yagi with the elements bent to make the
footprint smaller

.

----- Original Message -----
From: "desmoface" <desmoface@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, January 05, 2006 8:44 PM
Subject: [hex-beam] does a hexbeam need a rotor?

> Hey gang, looking at the pics at hexbeam's website, it appears that the
> antenna is omni-directional but it says it needs a lightweight rotor?
> Am I missing something? Im a hexbeam newbie, of course LOL..thanks in
> advance.
>
> Steve
> kb8viv
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> Yahoo! Groups Links
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> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date:
> 05/01/2006
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2935. A Must For Hexbeam Builders

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-06 22:46:31 UTC
From: xalunt
Topic: 2935 Message: 2935

For setting up your wire lines and to make it real easy get a laser type level from radio shack or any local store and set ur center post level then from the bolts on the center post put your laser level on them and shoot the beam out to a board behind the end of the spreader and adjust you spreaded accordingly ..works real slick and easy and very accurate..takes the pain of not knowing how long they should be ..Larry AG8O

2936. Re: [hex-beam] A Must For Hexbeam Builders

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-06 23:37:25 UTC
From: n1zw
Topic: 2935 Message: 2936

very good information on using a laser level , I never would have thoughtof it myself. I guess as soon as I find the poles that will work for me I can start building mine. Thanks to all the homebrewers sharing the wealth of info on the hexbeam. It will help to give me an antenna I will be finally happy with. Being broke and on fixed income it would only be a dream to have something as nice as the hexbeam from Traffie. Thanks again all -----
Original Message -----
From: xalunt
To: hex-beam@yahoogroups.com
Sent: Friday, January 06, 2006 5:46 PM
Subject: [hex-beam] A Must For Hexbeam Builders

For setting up your wire lines and to make it real easy get a laser type level from radio shack or any local store and set ur center post level then from the bolts on the center post put your laser level on them and shoot the beam out to a board behind the end of the spreader and adjust you spreaded accordingly ..works real slick and easy and very accurate..takes the pain of not knowing how long they should be ..Larry AG8O

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b.. To unsubscribe from this group, send an email to:
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c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

2937. Re: [hex-beam] does a hexbeam need a rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-07 01:46:20 UTC
From: bur52@aol.com
Topic: 2932 Message: 2937

Hi Steve
the hex is simply a two element beam. It does have direction-ability...
I use a TV rotor to soin mine on a push up tower, at 40 feet
JohnB

[Non-text portions of this message have been removed]

2938. Ordered new spreaders from Max-Gain

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-07 05:13:08 UTC
From: Mark
Topic: 2938 Message: 2938

I ordered 1, 3/4 and 1/2 inch fiberglass tube from Max-Gain. They will cut each 8 foot length in half to save me shipping plus make the pieces more managable if I ever take it portable.

Thanks to W6OT for the info he posted. The MkII version is moving along.

73,
Mark N3GNW

2939. does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-07 05:30:54 UTC
From: wb8yqj
Topic: 2932 Message: 2939

Hi Guys,

I have the 20m monobander on a 35 foot Radio Shack push up telescoping mast. It was $69 bucks plus the steel guy cable and works quite well enough. The telescoping mast base is pressed in the ground and also connected at house eaves at 8 foot point. I attach the antenna while on a ladder then push it up from the ladder, guys very loose at first.

But I am interested in the multiband hexbeam and that's closer to twenty lbs. with rotor. That's a load to hoist and when it's going up the guys are not yet tight. I've "cheated by" with this kind of arrangement in the past and been lucky going up and coming down. Once it's at height it's no problem however because the guy wires are tight.

Can anyone suggest their optimal solution for getting the 5 band version of this antenna up at 35 feet, while retaining the smallest visibility for the support, in line with the stealthy nature of the antenna itself?

I'd consider some kind of a minimal crank up would probably work best but could be fairly costly - ideas? !!!

Thanks,
Don Rasmussen WB8YQJ
Carlsbad, Ca.

2940. Re: [hex-beam] does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-07 18:50:37 UTC
From: buysmart2002
Topic: 2932 Message: 2940

Don,

I don't have an answer to your question as to how to raise a heavier antenna. But I was wondering about the telescoping mast from Radio Shack. Their on-line site doesn't show that mast. Did you get it at a local store or is it one you have had for awhile?

Thanks,

Leo, K4KIO

wb8yqj <wb8yqj@...> wrote: Hi Guys,

I have the 20m monobander on a 35 foot Radio Shack push up telescoping mast. It was $69 bucks plus the steel guy cable and works quite well enough. The telescoping mast base is pressed in the ground and also connected at house eaves at 8 foot point. I attach the antenna while on a ladder then push it up from the ladder, guys very loose at first.

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Can anyone suggest their optimal solution for getting the 5 band version of this antenna up at 35 feet, while retaining the smallest visibility for the support, in line with the stealthy nature of the antenna itself?

I'd consider some kind of a minimal crank up would probably work best but could be fairly costly - ideas? !!!

Thanks,
Don Rasmussen WB8YQJ
Carlsbad, Ca.

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[Non-text portions of this message have been removed]

2941. Re: does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-07 19:11:50 UTC
From: ownsyar
Topic: 2932 Message: 2941

Hi Leo,
Radio Shack no longer carries the three section push-up mast. They were $69.95 and RS sold them out at $49.95 some time ago. I wanted to get one or two and the guy at the local store looked at the state wide (and Texas is w-i-d-e)inventory and the closest was 100 miles away. This was about a year or 1 1/2 years ago.
73 Allen KA5N

--- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...> wrote:
>
> Don,
>
> I don't have an answer to your question as to how to raise a heavier antenna. But I was wondering about the telescoping mast from Radio Shack. Their on-line site doesn't show that mast. Did you get it at a local store or is it one you have had for awhile?
>
> Thanks,
>
> Leo, K4KIO
>
> wb8yqj <wb8yqj@y...> wrote: Hi Guys,
>
> I have the 20m monobander on a 35 foot Radio Shack push up
> telescoping mast. It was $69 bucks plus the steel guy cable and works
> quite well enough. The telescoping mast base is pressed in the ground
> and also connected at house eaves at 8 foot point. I attach the
> antenna while on a ladder then push it up from the ladder, guys very
> loose at first.
>
> But I am interested in the multiband hexbeam and that's closer to
> twenty lbs. with rotor. That's a load to hoist and when it's going up
> the guys are not yet tight. I've "cheated by" with this kind of
> arrangement in the past and been lucky going up and coming down. Once
> it's at height it's no problem however because the guy wires are
> tight.
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> Can anyone suggest their optimal solution for getting the 5 band

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> visibility for the support, in line with the stealthy nature of
the
> antenna itself?
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> I'd consider some kind of a minimal crank up would probably work
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> but could be fairly costly - ideas? !!!
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> Thanks,
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> Carlsbad, Ca.
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> [Non-text portions of this message have been removed]
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2942. Re: does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-07 19:23:03 UTC
From: Mark
Topic: 2932 Message: 2942

Some Lowes home improvement centers carry the Channel Master push up mast. Two of the three near me do. Others might be able to order it.

73, Mark N3GNW

--- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...> wrote:
>
> Don,
>
> I don't have an answer to your question as to how to raise a heavier antenna. But I was wondering about the telescoping mast from Radio Shack. Their on-line site doesn't show that mast. Did you get it at a local store or is it one you have had for awhile?
>
> Thanks,
>
> Leo, K4KIO
>
> wb8yqj <wb8yqj@y...> wrote: Hi Guys,
>
> I have the 20m monobander on a 35 foot Radio Shack push up
> telescoping mast. It was $69 bucks plus the steel guy cable and works
> quite well enough. The telescoping mast base is pressed in the ground
> and also connected at house eaves at 8 foot point. I attach the
> antenna while on a ladder then push it up from the ladder, guys very
> loose at first.
>
> But I am interested in the multiband hexbeam and that's closer to
> twenty lbs. with rotor. That's a load to hoist and when it's going up
> the guys are not yet tight. I've "cheated by" with this kind of
> arrangement in the past and been lucky going up and coming down. Once
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>
> Can anyone suggest their optimal solution for getting the 5 band
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> antenna itself?
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> I'd consider some kind of a minimal crank up would probably work
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> Thanks,
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> [Non-text portions of this message have been removed]
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2943. Re: [hex-beam] does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-07 20:13:46 UTC
From: John Lepire
Topic: 2932 Message: 2943

you mean cell phone shack ;-P they got our of the radio biz long ago and to me are worthless then again they ruined other good radio stores in the seventys by selling junk . lowes had a pretty good one but still ive seen better thicker poles from ham catologs , to me the radio shack pole was thin and not worht the price they were selling it for . radio shack also use to sell a very good uhf antenna for 24 bucks but again they getting out of that biz and inot cell phones and nick knacks . ;-) john kd5dfm
btw ive got a mosley tri bander on a pole with a old alianace rotor . got the rotor off ebay and works well for 20 bucks total ;-) .
----- Original Message -----
From: "buysmart2002" <buysmart2002@...>
To: <hex-beam@yahoogroups.com>
Sent: Saturday, January 07, 2006 12:50 PM
Subject: Re: [hex-beam] does a hexbeam need a tower?

> Don,
>
> I don't have an answer to your question as to how to raise a heavier antenna. But I was wondering about the telescoping mast from Radio Shack. Their on-line site doesn't show that mast. Did you get it at a local store or is it one you have had for awhile?
>
> Thanks,
>

2944. Re: does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-08 00:15:27 UTC
From: wb8yqj
Topic: 2932 Message: 2944

Leo, I have had my 35 foot mast for several years now, Radio Shack no longer sells them and you have to find a Radio Shack store that is not near a Mall if you need a rotor or a scanner antenna as well anymore.

The Lowes store near me had the closest match I've found, a 30 foot telescoping mast. That was last month.

Hope this helps,
Don

--- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...> wrote:
>
> Don,
>
> I don't have an answer to your question as to how to raise a heavier antenna. But I was wondering about the telescoping mast from Radio Shack. Their on-line site doesn't show that mast. Did you get it at a local store or is it one you have had for awhile?
>
> Thanks,
>
> Leo, K4KIO
>
> wb8yqj <wb8yqj@y...> wrote: Hi Guys,
>
> I have the 20m monobander on a 35 foot Radio Shack push up
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> quite well enough. The telescoping mast base is pressed in the ground
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> But I am interested in the multiband hexbeam and that's closer to
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> Thanks,
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> Carlsbad, Ca.
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> [Non-text portions of this message have been removed]
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2945. Re: does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-07 19:57:45 UTC
From: n1tyh
Topic: 2932 Message: 2945

Mark,

Do you happen to have a part number for that Channel Master push up
mast? I did a search online and couldn't find it. I'm in MA, so
perhaps it would have to be ordered for one of our stores to get it.

73,
Steve (N1TYH)

--- In hex-beam@yahoogroups.com, "Mark" <n3gnw@a...> wrote:
>
> Some Lowes home improvement centers carry the Channel Master push up
> mast. Two of the three near me do. Others might be able to order
> it.
>
> 73, Mark N3GNW
>
> --- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...>
> wrote:
> >
> > Don,
> >
> > I don't have an answer to your question as to how to raise a
> heavier antenna. But I was wondering about the telescoping mast
> from Radio Shack. Their on-line site doesn't show that mast. Did
> you get it at a local store or is it one you have had for awhile?
> >
> > Thanks,
> >
> > Leo, K4KIO
> >
> > wb8yqj <wb8yqj@y...> wrote: Hi Guys,
> >
> > I have the 20m monobander on a 35 foot Radio Shack push up
> > telescoping mast. It was $69 bucks plus the steel guy cable and
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> > quite well enough. The telescoping mast base is pressed in the
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> > antenna itself?
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> > I'd consider some kind of a minimal crank up would probably work
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> > Thanks,
> > Don Rasmussen WB8YQJ
> > Carlsbad, Ca.
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> > ---
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> > [Non-text portions of this message have been removed]
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>

2946. Re: [hex-beam] does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-07 18:56:05 UTC
From: Lawton wright
Topic: 2932 Message: 2946

Don
I was also able to buy a 40' push up pole from Radio Shack. Just go into the store and ask if they can get you one. I live in Northern California
Gene Wright WA6ZRT

buysmart2002 <buysmart2002@...> wrote:
Don,

I don't have an answer to your question as to how to raise a heavier antenna. But I was wondering about the telescoping mast from Radio Shack. Their on-line site doesn't show that mast. Did you get it at a local store or is it one you have had for awhile?

Thanks,

Leo, K4KIO

wb8yqj <wb8yqj@...> wrote: Hi Guys,

I have the 20m monobander on a 35 foot Radio Shack push up telescoping mast. It was $69 bucks plus the steel guy cable and works quite well enough. The telescoping mast base is pressed in the ground and also connected at house eaves at 8 foot point. I attach the antenna while on a ladder then push it up from the ladder, guys very loose at first.

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Thanks,
Don Rasmussen WB8YQJ
Carlsbad, Ca.

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[Non-text portions of this message have been removed]

2947. Re: [hex-beam] Re: does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-08 03:16:25 UTC
From: Ray Keefe
Topic: 2932 Message: 2947

Leo,

RUN TO LOWES!!!! They are closing them out. I got
during the summer of last year for $9.99. I asked the
folks if they had anymore and they told me they were
no longer carrying anything to do with tv antenna's.
This was the Lowe's in Howell, NJ.

Good luck,

Ray
KC2GMN

_____
Yahoo! DSL ? Something to write home about.
Just $16.99/mo. or less.
dsl.yahoo.com

2948. Re: [hex-beam] Re: does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-08 05:28:01 UTC
From: bur52@aol.com
Topic: 2932 Message: 2948

I used the Lowes, channel master 30 footer. I have since replaced it with a Rohn 50 footer.

The Rohn is a bit sturdier. I also did away with the upper most section. It was too thin for my liking. So it is now at 40 feet. And works great The Rohn was 175.00, but worth the additional cost. And the extra 10 feet doesn't hurt either.

I spin the antenna with a channel master rotor, and a neat little digital control. Very nice compact set up.
good luck
JohnB
kb3lxy

[Non-text portions of this message have been removed]

2949. Re: does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-08 10:26:38 UTC
From: Palle A. Andersen
Topic: 2932 Message: 2949

Hello to the group and happy new year!

At my homepage you will fine a solution with a TV-tower, in wich i plan
to put up a home-made HEX-BEAM, I am working on.

Look here: http://www.planker.dk/oz6ym/Mast/default.htm

For the moment i have a full size GP for 40 meter in it, but later.....

I found 6 fishing... in a local auto-teamshop - 6,50 $ pcs.

VY 73 de OZ6YM, Palle

2950. Re: does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-08 15:39:49 UTC
From: Mark
Topic: 2932 Message: 2950

Next time I am in the Lowes I will look at the part number. I was going to get one but I just picked up 30 feet of Rohn 6. A light weight tower for TV antennas. But it should handle the hex fine.

Its ashame they're closing it out but they are in the business to make money and if doesn't move, open the floor space to something else.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "n1tyh" <n1tyh@t...> wrote:
>
> Mark,
>
> Do you happen to have a part number for that Channel Master push up
> mast? I did a search online and couldn't find it. I'm in MA, so
> perhaps it would have to be ordered for one of our stores to get
it.
>
> 73,
> Steve (N1TYH)
>
> --- In hex-beam@yahoogroups.com, "Mark" <n3gnw@a...> wrote:
> >
> > Some Lowes home improvement centers carry the Channel Master
push up
> > mast. Two of the three near me do. Others might be able to
order
> > it.
> >
> > 73, Mark N3GNW
> >
> > --- In hex-beam@yahoogroups.com, buysmart2002
<buysmart2002@y...>
> > wrote:
> > >
> > > Don,
> > >
> > > I don't have an answer to your question as to how to raise a
> > heavier antenna. But I was wondering about the telescoping mast
> > from Radio Shack. Their on-line site doesn't show that mast.
Did
> > you get it at a local store or is it one you have had for
awhile?
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> > > Thanks,
> > >
> > > Leo, K4KIO
> > >
> > > wb8yqj <wb8yqj@y...> wrote: Hi Guys,
> > >
> > > I have the 20m monobander on a 35 foot Radio Shack push up
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> > > Thanks,
> > > Don Rasmussen WB8YQJ

> > > Carlsbad, Ca.
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>

2951. Re: does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-08 19:01:32 UTC
From: ownsyar
Topic: 2932 Message: 2951

Check the site http://www.leoshoemaker.com/hexbeambyk4kio/general.html
and see K4TIO's unique solution for lifting the Hexbeam into the
ether. He has taken readily available parts to make a fold-over
mounting that is about 26 feet high (and fairly low cost) that folds
down with a winch. He gives details on a hexbeam using Crappie poles
for spreaders and a lightweight rotor for turning. Be sure to look at
the blown up pictures as the details will become clear. He gives a
few ideas to think about even if you don't try to duplicate his
installation.
I notice that the local MDS television people use 30 ft. push up poles
on their installations, perhaps they might be a source of poles.
Seems that everybody is getting out of the antenna pole business, I
remember that Home Depot used to sell them and of course Lowes.
The other option I have considered is Univeral aluminum towers. they
sell 30 ft and up self-supporting towers with 4 sq ft and up ratings.
The smaller 30 ft 4 sq ft tower is around $350 and weighs 38 pounds.
Good luck
Allen KA5N

2952. Re: [hex-beam] Re: does a hexbeam need a tower?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-09 02:43:10 UTC
From: Rodney H. Marty
Topic: 2932 Message: 2952

Steve,

I purchased one today at the Lowe's in Rockford, IL. The part number is 56273.

-Rod (NA9N)
New Glarus, WI

----- Original Message -----
From: n1tyh
To: hex-beam@yahoogroups.com
Sent: Saturday, January 07, 2006 1:57 PM
Subject: [hex-beam] Re: does a hexbeam need a tower?

Mark,

Do you happen to have a part number for that Channel Master push up
mast? I did a search online and couldn't find it. I'm in MA, so
perhaps it would have to be ordered for one of our stores to get it.

73,
Steve (N1TYH)

--- In hex-beam@yahoogroups.com, "Mark" <n3gnw@a...> wrote:
>
> Some Lowes home improvement centers carry the Channel Master push up
> mast. Two of the three near me do. Others might be able to order
> it.
>
> 73, Mark N3GNW
>
> --- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...>
> wrote:
> >
> > Don,
> >
> > I don't have an answer to your question as to how to raise a
> heavier antenna. But I was wondering about the telescoping mast
> from Radio Shack. Their on-line site doesn't show that mast. Did
> you get it at a local store or is it one you have had for awhile?
> >
> > Thanks,
> >
> > Leo, K4KIO
> >
> > wb8yqj <wb8yqj@y...> wrote: Hi Guys,
> >
> > I have the 20m monobander on a 35 foot Radio Shack push up

> > telescoping mast. It was $69 bucks plus the steel guy cable and
> works
> > quite well enough. The telescoping mast base is pressed in the
> ground
> > and also connected at house eaves at 8 foot point. I attach the
> > antenna while on a ladder then push it up from the ladder, guys
> very
> > loose at first.
> >
> > But I am interested in the multiband hexbeam and that's closer
> to
> > twenty lbs. with rotor. That's a load to hoist and when it's
> going up
> > the guys are not yet tight. I've "cheated by" with this kind of
> > arrangement in the past and been lucky going up and coming down.
> Once
> > it's at height it's no problem however because the guy wires are
> > tight.
> >
> > Can anyone suggest their optimal solution for getting the 5 band
> > version of this antenna up at 35 feet, while retaining the
> smallest
> > visibility for the support, in line with the stealthy nature of
> the
> > antenna itself?
> >
> > I'd consider some kind of a minimal crank up would probably work
> best
> > but could be fairly costly - ideas? !!!
> >
> > Thanks,
> > Don Rasmussen WB8YQJ
> > Carlsbad, Ca.
> >
> >
> >
> >
> >
> >
> >
> >
> >
> > ---
> > YAHOO! GROUPS LINKS
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> >
> > Visit your group "hex-beam" on the web.
> >
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> > ---
> >
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

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[Non-text portions of this message have been removed]

2953. Masts and Guys

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-09 05:45:42 UTC
From: w4wb
Topic: 2953 Message: 2953

FWIW, I noticed several folks mentioning using guy wires to hold masts in place. Wire guys can present RF problems depending upon their lengths. Dacron antenna rope is a fine alternative.

Another point is that one can significantly stiffen a mast by forcing more overlap between the sections. For example, take a 40' mast and transform it into perhaps a 34' mast. It makes a lot of difference in how "floppy" the mast is when being errected and when in use. What I have done is to drill a hole through the overlaped sections and then insert a bolt (with flat, lock, and nut).

73,
Barry W4WB

2954. Homebrewing A Hex-Beam?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-10 00:41:48 UTC
From: jim_ketchum
Topic: 2954 Message: 2954

Greetings to the group,

The more I read the postings here, the more I desire to build this antenna. I was wondering if anyone who has homebrewed one has ordered parts from Horst, DL7IO? If so, was the price difference, including shipping, comparable or cheaper than ordering an antenna from Mike Traffie (not that I would begrudge Mike the business)? Also, has anyone Stateside located similar construction materials equivalent to those that Horst produces there in Germany? I see from his web site that he custom crafts the hubs for his kits. If nothing like it is available in the US, I will have to look at purchasing one of his.

I realize that these may be fairly common questions being asked, but I haven't seen anything so far in the postings that had answered these particular ones. Thanks to all who contribute to answering these questions, and any further ones that may come up in the future regarding this project.

73,

Jim, KG9EQ

2955. Re:Apology to DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-10 00:53:35 UTC
From: jim_ketchum
Topic: 2955 Message: 2955

Holger,

It wasn't until after I posted my message about building a Hex-Beam that I realized I had misread and typed in the wrong name. Please accept my apologies for having done so.

73,

Jim, KG9EQ

2956. Re: Homebrewing A Hex-Beam?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-10 08:24:40 UTC
From: dl7io
Topic: 2954 Message: 2956

Hello Jim,

I have sent parts all over the world meanwhile. Antennas are installed in Europe and Africa.
As long as we have only small parts, which can be send as a letter, it is easy. Complete antennas or the bigger sized parts are very expensive to ship overseas and that's why it is not interesting to ship to the states.

The center hub would cost you about 200-300 US$ if shipped from here. So therefore there is only marginal competition to Traffie as he has the same problem with shipping costs to Europe.

If you have somebody who comes to Europe and can take this back home for you it might be a chance.

73 Holger

--- In hex-beam@yahoogroups.com, "jim_ketchum" <jim_ketchum@y...> wrote:
>
> Greetings to the group,
>
> The more I read the postings here, the more I desire to build this
> antenna. I was wondering if anyone who has
> homebrewed one has ordered parts from Horst, DL7IO? If so, was the
> price difference, including shipping, comparable or cheaper than
> ordering an antenna from Mike Traffie (not that I would begrudge
> Mike the business)? Also, has anyone Stateside located similar
> construction materials equivalent to those that Horst produces there
> in Germany? I see from his web site that he custom crafts the hubs
> for his kits. If nothing like it is available in the US, I will have
> to look at purchasing one of his.
>
> I realize that these may be fairly common questions being asked, but
> I haven't seen anything so far in the postings that had answered
> these particular ones. Thanks to all who contribute to answering
> these questions, and any further ones that may come up in the future
> regarding this project.
>
> 73,
>

> Jim, KG9EQ
>

2957. Re: Homebrewing A Hex-Beam?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-10 11:23:26 UTC
From: Mark
Topic: 2954 Message: 2957

Jim,

If you look through the pictures and descriptions here as well as the web sites that have been listed recently in postings you will see a variety of construction techniques and materials.

Unfortunetely nobody outright lists a set of parts. Some people have gone all the way with a cut and machined metal base like Mike Traffie's Hex-Beam and others have just used plywood or pressure treated plywood like me. But it does encourage creativity.

You can see pictures of the first version I built here.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "jim_ketchum" <jim_ketchum@y...>
wrote:
>
> Greetings to the group,
>
> The more I read the postings here, the more I desire to build this
> antenna. I was wondering if anyone who has
> homebrewed one has ordered parts from Horst, DL7IO? If so, was the
> price difference, including shipping, comparable or cheaper than
> ordering an antenna from Mike Traffie (not that I would begrudge
> Mike the business)? Also, has anyone Stateside located similar
> construction materials equivalent to those that Horst produces
there
> in Germany? I see from his web site that he custom crafts the hubs
> for his kits. If nothing like it is available in the US, I will
have
> to look at purchasing one of his.
>
> I realize that these may be fairly common questions being asked,
but
> I haven't seen anything so far in the postings that had answered
> these particular ones. Thanks to all who contribute to answering
> these questions, and any further ones that may come up in the
future
> regarding this project.
>
> 73,
>
> Jim, KG9EQ
>

2958. Re: [hex-beam] Re:Apology to DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-10 14:36:58 UTC
From: buysmart2002
Topic: 2955 Message: 2958

Jim,

the best baseplate material I found was a polyethelyne kitchen cutting board at Bed Bath and Beyond. It can be cut with a saw, it is very sturdy, it is waterproof and non-conductive. It comes in several sizes; the one I bought cost $6. I tried plywood at first but it would not stand up in the weather.

You can see how I used the cutting board at my hexbeam site.

73, Leo, K4KIO

jim_ketchum <jim_ketchum@...> wrote: Holger,

It wasn't until after I posted my message about building a Hex-Beam
that I realized I had misread and typed in the wrong name. Please
accept my apologies for having done so.

73,

Jim, KG9EQ

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[Non-text portions of this message have been removed]

2959. Re: [hex-beam] baseplate material was Re:Apology to DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-10 15:16:03 UTC
From: Harold Burton
Topic: 2959 Message: 2959

Leo,
The material I used was akin to the material in your your cutting board. A Ham in my local group works at a rock and gravel quarry where they use 3/4" thick sheet HDPE (high density polyetheline) to line handling chutes. He gave me a scrap piece large enough to cut a hub circle. A 20" diameter circle weighed 6 pounds. I got the weight down to 3 pounds by cutting my circular hub into rounded off six point star shape. I've had the Hexbeam up about 3 weeks now and it seems to be standing up well. I even tested its toughness one cold morning by striking a small piece of scrap HDPE on an anvil with a large hammer. No chipping or shattering, hardly even made a mark. I'd been worrying about the effect of low temperature on the material and feel better about it now. By the way, the spreaders I used with the HDPE hub are fiberglass electric fence posts (round fiberglass rod) I got at a local farm/ranch store. Mine were 3/8" by 48" and had to be spliced to get a proper length. I have found from speaking to other Hexbeamers that some area farm or ranch stores carry 1/2" by 72" fiberglass posts. Sure wish the stores in my area had stocked that larger size.

Harold
KD5SAK

----- Original Message -----
From: "buysmart2002" <buysmart2002@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, January 10, 2006 8:36 AM
Subject: Re: [hex-beam] Re:Apology to DL7IO

> Jim,
>
> the best baseplate material I found was a polyethelyne kitchen
> cutting board at Bed Bath and Beyond. It can be cut with a saw, it is
> very sturdy, it is waterproof and non-conductive. It comes in several
> sizes; the one I bought cost $6. I tried plywood at first but it
> would not stand up in the weather.
>
> You can see how I used the cutting board at my hexbeam site.
>
> 73, Leo, K4KIO

2960. Re: [hex-beam] baseplate material was Re:Apology to DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-10 16:31:00 UTC
From: buysmart2002
Topic: 2959 Message: 2960

Harold,

Great ideas for spreaders and baseplate.

On another theme, I just visited the local Lowe's here in Birmingham, AL and they carry the Channel Master lineup of TV antenna hardware including the following:

30 foot telescoping mast in three sections with guy ring hardware $44.83
10 foot section for extending above mast to 40 feet (don't remember price)
Rotator $90
Rotator control cable 75 ft $10

73, Leo, K4KIO

Harold Burton <kd5sak@...> wrote: Leo,
The material I used was akin to the material in your your cutting board. A Ham in my local group works at a rock and gravel quarry where they use 3/4" thick sheet HDPE (high density polyetheline) to line handling chutes. He gave me a scrap piece large enough to cut a hub circle. A 20" diameter circle weighed 6 pounds. I got the weight down to 3 pounds by cutting my circular hub into rounded off six point star shape. I've had the Hexbeam up about 3 weeks now and it seems to be standing up well. I even tested its toughness one cold morning by striking a small piece of scrap HDPE on an anvil with a large hammer. No chipping or shattering, hardly even made a mark. I'd been worrying about the effect of low temperature on the material and feel better about it now. By the way, the spreaders I used with the HDPE hub are fiberglass electric fence posts (round fiberglass rod) I got at a local farm/ranch store. Mine were 3/8" by 48" and had to be spliced to get a proper length. I have found from speaking to other Hexbeamers that some area farm or ranch stores carry 1/2" by 72" fiberglass posts. Sure wish the stores in my area had stocked that larger size.

Harold
KD5SAK

----- Original Message -----
From: "buysmart2002" <buysmart2002@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, January 10, 2006 8:36 AM
Subject: Re: [hex-beam] Re:Apology to DL7IO

> Jim,
>
> the best baseplate material I found was a polyethelyne kitchen
> cutting board at Bed Bath and Beyond. It can be cut with a saw, it is
> very sturdy, it is waterproof and non-conductive. It comes in several

> sizes; the one I bought cost $6. I tried plywood at first but it
> would not stand up in the weather.
>
> You can see how I used the cutting board at my hexbeam site.
>
> 73, Leo, K4KIO

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[Non-text portions of this message have been removed]

2961. Re: [hex-beam] baseplate material was Re:Apology to DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-10 17:28:03 UTC
From: Harold Burton
Topic: 2959 Message: 2961

Oddly enough, I just did a little Lowes internet research yesterday on Channelmaster thru our local store. They don't stock the line here but you can obtain it by special order. If my Radio Shack mast packs it in I'll try for a Channelmaster replacement (actually, the RS mast may really be Channelmaster made). I, and the other local Hexbeamer have our antennas at approximately 30 feet with the one set of guy ropes at about 25 feet. The other local Ham has had his antenna up at least a couple of months longer and his setup has weathered some fairly high winds. I helped construct his hexbeam, he used doubled pvc pipe for spreaders (1/2" inside of 3/4", as I remember). Except for spreader and hub construction our antennas are identical 20 meter monobanders. We got info on the HDPE hub material and found out about the fiberglass fence posts long after we had constructed the original Hexbeam. By the way, I've had a certain amount of success using a tuner to match my antenna on 17 meters. I've got no idea what RF pattern it obtains on that band but it seems useful. It'll tune almost all the HF bands but I've achieved the most contacts on 17 meters.
Sorry about the message length, I tend to get wordy on Hexbeam construction.

Harold
KD5SAK
----- Original Message -----
From: "buysmart2002" <buysmart2002@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, January 10, 2006 10:31 AM
Subject: Re: [hex-beam] baseplate material was Re:Apology to DL7IO

> Harold,
>
> Great ideas for spreaders and baseplate.
>
> On another theme, I just visited the local Lowe's here in Birmingham,
> AL and they carry the Channel Master lineup of TV antenna hardware
> including the following:
>
> 30 foot telescoping mast in three sections with guy ring hardware
> $44.83
> 10 foot section for extending above mast to 40 feet (don't remember
> price)
> Rotator $90
> Rotator control cable 75 ft $10
>
> 73, Leo, K4KIO

2962. Re: [hex-beam] baseplate material was Re:Apology to DL7IO

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-10 18:27:24 UTC
From: John Cowan
Topic: 2959 Message: 2962

Harold:
The channelmaster rotor can be ordered through Starks.:
http://www.starkelectronic.com/rotor.htm#tb105

John

Harold Burton <kd5sak@...> wrote: Oddly enough, I just did a little Lowes internet research yesterday on
Channelmaster thru our local store. They don't stock the line here but
you can obtain it by special order. If my Radio Shack mast packs it in
I'll try for a Channelmaster replacement (actually, the RS mast may
really be Channelmaster made). I, and the other local Hexbeamer have our
antennas at approximately 30 feet with the one set of guy ropes at about
25 feet. The other local Ham has had his antenna up at least a couple of
months longer and his setup has weathered some fairly high winds. I
helped construct his hexbeam, he used doubled pvc pipe for spreaders
(1/2" inside of 3/4", as I remember). Except for spreader and hub
construction our antennas are identical 20 meter monobanders. We got
info on the HDPE hub material and found out about the fiberglass fence
posts long after we had constructed the original Hexbeam. By the way,
I've had a certain amount of success using a tuner to match my antenna
on 17 meters. I've got no idea what RF pattern it obtains on that band
but it seems useful. It'll tune almost all the HF bands but I've
achieved the most contacts on 17 meters.
Sorry about the message length, I tend to get wordy on Hexbeam
construction.

Harold
KD5SAK
----- Original Message -----
From: "buysmart2002" <buysmart2002@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, January 10, 2006 10:31 AM
Subject: Re: [hex-beam] baseplate material was Re:Apology to DL7IO

> Harold,
>
> Great ideas for spreaders and baseplate.
>
> On another theme, I just visited the local Lowe's here in Birmingham,
> AL and they carry the Channel Master lineup of TV antenna hardware
> including the following:
>
> 30 foot telescoping mast in three sections with guy ring hardware
> $44.83
> 10 foot section for extending above mast to 40 feet (don't remember

> price)
> Rotator $90
> Rotator control cable 75 ft $10
>
> 73, Leo, K4KIO

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[Non-text portions of this message have been removed]

2963. Re:Homebrewing a Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-10 20:09:57 UTC
From: jim_ketchum
Topic: 2963 Message: 2963

I wish to thank all who have contributed to my knowledge base on constructing one of these antennas. The cutting board idea hadn't occurred to me, but that's why we ask these questions!

Leo, I didn't see your web site listed in your message. Would you post the link for me, please?

I'll keep looking for local sources here in Kansas City area for spreader materials and the like. If anyone can give me some insight into how to build the center support for the five-bander, I'd appreciate it. Thanks again!

73,

Jim, KG9EQ

2964. Re: [hex-beam] Re:Homebrewing a Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-10 20:51:07 UTC
From: rod@tds.net
Topic: 2963 Message: 2964

Jim,
If you want to look into the fiberglass fishing poles as spreaders, you might check Cabela's sporting good store in KC. They carry the B'n'M Black Widow poles that Leo has used for 9.99 each. My local store in Prairie Du Chien, WI was out of them, but they ordered them from the warehouse in Sidney, NE for me.

73,

Rod, NA9N
New Glarus WI
>
> From: "jim_ketchum" <jim_ketchum@...>
> Date: 2006/01/10 Tue PM 08:09:57 GMT
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] Re:Homebrewing a Hex-Beam
>
>

[Non-text portions of this message have been removed]

2965. Re: [hex-beam] Re:Homebrewing a Hex-Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-10 21:17:26 UTC
From: buysmart2002
Topic: 2963 Message: 2965

Jim , here is the site with the baseplate description.

http://www.leoshoemaker.com/hexbeambyk4kio/step1.html

73, Leo, K4KIO

jim_ketchum <jim_ketchum@...> wrote: I wish to thank all who have contributed to my knowledge base on
constructing one of these antennas. The cutting board idea hadn't
occurred to me, but that's why we ask these questions!

Leo, I didn't see your web site listed in your message. Would you post
the link for me, please?

I'll keep looking for local sources here in Kansas City area for
spreader materials and the like. If anyone can give me some insight
into how to build the center support for the five-bander, I'd
appreciate it. Thanks again!

73,

Jim, KG9EQ

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[Non-text portions of this message have been removed]

2966. Thanks!

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-10 23:25:21 UTC
From: jim_ketchum
Topic: 2966 Message: 2966

Thanks Leo, Dave, and Rod! Lots of good material to chew on and get price lists together to do this. I'm looking to build the five-bander. Dave's feedpoint ideas were an excellent solution.

I appreciate all the info and experience you guys offer for me to draw from. This is what I remember when I got into ham radio years ago, and am glad there are srill many who desire to see this wonderful hobby continue by contributing in this way. Thanks a lot!

73,

Jim, KG9EQ

2967. Hex-beam on Ebay

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-11 14:48:56 UTC
From: DrRodney
Topic: 2967 Message: 2967

I noticed today that someone is selling a homebrew hex-beam on Ebay right now: http://cgi.ebay.com/HEX-beam-5-bands_W0QQitemZ5851057255QQcategoryZ48692QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

2968. Re: Hex-beam on Ebay

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-11 15:25:52 UTC
From: Colin
Topic: 2967 Message: 2968

Looks like a reasonable price considering the cost of the fibreglass.
The wedges on the baseplate to rake the spreaders higher look a little
suspect, i guess the spreaders are a bit too rigid to give the correct
curve.

The only other observation is that the assembled hex isn`t shown. Nor
is the element attachment to the spreaders and the wire type isn`t
mentioned.
Other than that it could save someone the time to homebrew one :)

--- In hex-beam@yahoogroups.com, "DrRodney" <rod@t...> wrote:
>
> I noticed today that someone is selling a homebrew hex-beam on Ebay
> right now: http://cgi.ebay.com/HEX-beam-5-
>
bands_W0QQitemZ5851057255QQcategoryZ48692QQssPageNameZWDVWQQrdZ1QQcmdZV
> iewItem
>

2969. use of antenna tuner

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-11 20:47:41 UTC
From: obiwan9325
Topic: 2969 Message: 2969

Has anyone experimented with using an antenna tuner trying to get 40 or 80 meters on the 5 band Hex Beam? I get my Hex Beam next week!
Tom KE7BYC

2970. Re: [hex-beam] use of antenna tuner

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-11 23:04:20 UTC
From: Harold Burton
Topic: 2969 Message: 2970

```
----- Original Message -----
From: "obiwan9325" <transpacific@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, January 11, 2006 2:47 PM
Subject: [hex-beam] use of antenna tuner

> Has anyone experimented with using an antenna tuner trying to get 40
> or
> 80 meters on the 5 band Hex Beam? I get my Hex Beam next week!
> Tom KE7BYC
>
My homebrew Hexbeam 20 meter monobander is located out at my shop/shack.
At night when 40 and 80 meteres is most active I'm working from the
house on a Hustler 5BTV vertical so can't answer your question directly.
I have had a certain amount of success tuning it to 17 meters however.
Just this week I've had occasion to QSO both east and west coasts and
Puerto Rico on 17 meters. I have no idea how much effectivity offband
tuning allows with the Hexbeam but it does work. Fact is, when I put it
up on my mast and checked it with a MFJ-369 it turned out to be resonant
on 2 meters also, now that I didn't expect.

Harold
KD5SAK
```

2971. Re: [hex-beam] use of antenna tuner

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-11 23:17:35 UTC
From: Mike Van Winkle
Topic: 2969 Message: 2971

A good tuner will load a metal trash can....let alone
a hex!

--- Harold Burton <kd5sak@...> wrote:

>
> ----- Original Message -----
> From: "obiwan9325" <transpacific@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Wednesday, January 11, 2006 2:47 PM
> Subject: [hex-beam] use of antenna tuner
>
>
> > Has anyone experimented with using an antenna
> tuner trying to get 40
> > or
> > 80 meters on the 5 band Hex Beam? I get my Hex
> Beam next week!
> > Tom KE7BYC
> >
> My homebrew Hexbeam 20 meter monobander is located
> out at my shop/shack.
> At night when 40 and 80 meteres is most active I'm
> working from the
> house on a Hustler 5BTV vertical so can't answer
> your question directly.
> I have had a certain amount of success tuning it to
> 17 meters however.
> Just this week I've had occasion to QSO both east
> and west coasts and
> Puerto Rico on 17 meters. I have no idea how much
> effectivity offband
> tuning allows with the Hexbeam but it does work.
> Fact is, when I put it
> up on my mast and checked it with a MFJ-369 it
> turned out to be resonant
> on 2 meters also, now that I didn't expect.
>
> Harold
> KD5SAK
>
>

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2972. Re: [hex-beam] use of antenna tuner

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-12 00:41:45 UTC
From: bur52@aol.com
Topic: 2969 Message: 2972

Hi
Mine will tune 40 and 80 with a tuner, but I would think it to be mainly radiating via the coax !
JohnB

[Non-text portions of this message have been removed]

2973. Re: Ordered new spreaders from Max-Gain

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-12 15:30:28 UTC
From: Mark
Topic: 2938 Message: 2973

Got the new spreaders the other day. They cost me $80 including cutting and shipping. they are considerably stiffer than the PVC conduit. Can't wait to get them into use.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "Mark" <n3gnw@a...> wrote:
>
> I ordered 1, 3/4 and 1/2 inch fiberglass tube from Max-Gain. They
> will cut each 8 foot length in half to save me shipping plus make
the
> pieces more managable if I ever take it portable.
>
> Thanks to W6OT for the info he posted. The MkII version is moving
> along.
>
> 73,
> Mark N3GNW
>

2974. Re: [hex-beam] Re: Ordered new spreaders from Max-Gain

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-12 16:50:07 UTC
From: n1zw
Topic: 2938 Message: 2974

Hello all in the group, forgive me for sounding a bit slow here I am disabled though. I am lost on what the actual size needs to be for the spreaders.Is it 13 feet as I read about the crappie poles or is it 8 foot for each one. Thanks to anyone who help me clear my head.
best 73 all, Robin n1zw
----- Original Message -----
From: Mark
To: hex-beam@yahoogroups.com
Sent: Thursday, January 12, 2006 10:30 AM
Subject: [hex-beam] Re: Ordered new spreaders from Max-Gain

Got the new spreaders the other day. They cost me $80 including
cutting and shipping. they are considerably stiffer than the PVC
conduit. Can't wait to get them into use.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "Mark" <n3gnw@a...> wrote:
>
> I ordered 1, 3/4 and 1/2 inch fiberglass tube from Max-Gain. They
> will cut each 8 foot length in half to save me shipping plus make
the
> pieces more managable if I ever take it portable.
>
> Thanks to W6OT for the info he posted. The MkII version is moving
> along.
>
> 73,
> Mark N3GNW
>

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[Non-text portions of this message have been removed]

2975. Re: [hex-beam] Re: Ordered new spreaders from Max-Gain

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-12 19:00:39 UTC
From: Harold Burton
Topic: 2938 Message: 2975

If your homebrew Hexbeam is going to be built for 20 meters and above,
the individual spreaders will need to be at least 10 feet in length.
Mine (for a 20 meter monoband Hexbeam) were pieced together from
fiberglass fence posts and 3/4" thick HDPE plastic.
They were 9' 10" in length and were just barely long enough.

Harold
KD5SAK

--- Original Message -----
From: "n1zw" <n1zw@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, January 12, 2006 10:50 AM
Subject: Re: [hex-beam] Re: Ordered new spreaders from Max-Gain

> Hello all in the group, forgive me for sounding a bit slow here I am
> disabled though. I am lost on what the actual size needs to be for the
> spreaders.Is it 13 feet as I read about the crappie poles or is it 8
> foot for each one. Thanks to anyone who help me clear my head. best 73
> all, Robin n1zw

2976. Re: [hex-beam] Re: Ordered new spreaders from Max-Gain

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-12 19:15:24 UTC
From: n1zw
Topic: 2938 Message: 2976

Hi harold, thanks for the information , I take it as if I want to make the attempt for multibacnd they will have to increase in size then? Anyone know what the lenth minimum is for that? Being I live in New England there is weather to deal with sometimes pretty bad winters here.. Again thanks for all the info everyone, Robin n1zw
----- Original Message -----
From: Harold Burton
To: hex-beam@yahoogroups.com
Sent: Thursday, January 12, 2006 2:00 PM
Subject: Re: [hex-beam] Re: Ordered new spreaders from Max-Gain

If your homebrew Hexbeam is going to be built for 20 meters and above,
the individual spreaders will need to be at least 10 feet in length.
Mine (for a 20 meter monoband Hexbeam) were pieced together from
fiberglass fence posts and 3/4" thick HDPE plastic.
They were 9' 10" in length and were just barely long enough.

Harold
KD5SAK

--- Original Message -----
From: "n1zw" <n1zw@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, January 12, 2006 10:50 AM
Subject: Re: [hex-beam] Re: Ordered new spreaders from Max-Gain

> Hello all in the group, forgive me for sounding a bit slow here I am
> disabled though. I am lost on what the actual size needs to be for the
> spreaders.Is it 13 feet as I read about the crappie poles or is it 8
> foot for each one. Thanks to anyone who help me clear my head. best 73
> all, Robin n1zw

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[Non-text portions of this message have been removed]

2977. dimensions of new spreaders from Max-Gain

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-12 19:50:46 UTC
From: Kevin Adam N9IWW
Topic: 2938 Message: 2977

Here is the demensions you need from fellow ham

These are the Tubing dimensions I used that work out. They are from Max-Gain Systems, but only buy the 8 foot lengths, UPS will be considerable more, but the length and sizes work.
Qty. Size Length
6 3/4" 8 feet Tubing
3 1" 8 feet Tubing
1 1 1/4" 8 feet Tubing
1 1/2" 8 feet Tubing
Cut the 1 1/4" Tubing to make 6 pieces to go on your Hex base plate wirh U-Bolts and add the other sizes accordingly. By the way I used
1 1/4" U-Bolts and had to stretch them a little over a piece of barstock to fit over the Fiberglass Tubing. Only use the 1/2" tubing cut in 6 pieces if you need a little more curve at the end, it isn't necessary, some people like it better.
Wire I used was 14 Gauge Flex Weave 167 strand from Rf Davis, a little pricey but excellent wire for the project.
Band Driven Length Reflector Length End Spacings
20M 219" 222" 5" & 7"
17M 169" 172" 3.5" & 5.5"
15M 145" 148" 3.25" & 4.75"
12M 122" 124" 2.5" & 4.25"
10M 109" 111" 2.25" & 3.5"
These are usually within a couple of inches in being tuned correctly.

Mast Spacing (Approx.) From SO239
20M 1.25" 17M 17.625" 15M 22.625" 12M 27.88" 10M 30.25"
The bottom of the center section is wherever the 10M lines look straight. Go up from the with each to find all band straight rather than the mast spacing dimensions, they are close but may vary a little. Even if they are not straight the antenna still should work OK most of the time. Note the wire dimensions are for one leg side only, so you will need two of each of these cut. The Aluminum Hex plate I made was 12" and 5/16" thick, but 1/4" and 9.5" across the flats is good also. By the way you tip spacing at the top will be around 113" for 20 Meters wire. Now maybe this will give a few builders better insight. If anyone would like it I can tell you how to do the center pole and Feed connections too. Jerry Farek N5GND check out my photo section (N5GND)

N9IWW

On 12 Jan 2006 at 11:50, n1zw wrote:

> Hello all in the group, forgive me for sounding a bit slow here I am
> disabled though. I am lost on what the actual size needs to be for the
> spreaders.Is it 13 feet as I read about the crappie poles or is it 8
> foot for each one. Thanks to anyone who help me clear my head. best 73

> all, Robin n1zw
> ----- Original Message -----
> From: Mark
> To: hex-beam@yahoogroups.com
> Sent: Thursday, January 12, 2006 10:30 AM
> Subject: [hex-beam] Re: Ordered new spreaders from Max-Gain
>
>
> Got the new spreaders the other day. They cost me $80 including
> cutting and shipping. they are considerably stiffer than the PVC
> conduit. Can't wait to get them into use.
>
> 73,
> Mark N3GNW
>
> --- In hex-beam@yahoogroups.com, "Mark" <n3gnw@a...> wrote:
> >
> > I ordered 1, 3/4 and 1/2 inch fiberglass tube from Max-Gain. They
> > will cut each 8 foot length in half to save me shipping plus make
> the > pieces more managable if I ever take it portable. > > Thanks
> to W6OT for the info he posted. The MkII version is moving > along.
> > > 73, > Mark N3GNW >
>
>
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> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.17/226 - Release Date:
> 1/10/2006
>

2978. Re: [hex-beam] Re: Ordered new spreaders from Max-Gain

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-12 19:51:45 UTC
From: Harold Burton
Topic: 2938 Message: 2978

The bent depth of my fiberglass spreaders is approx 30". That would probably give sufficent vertical depth to allow for a multiband Hexbeam. I can't say that for certain, though, since mine was built monoband. Dave Billheimer, W1GQL, has a internet site dedicated to homebrew Hexbeams. His url is http://midcoast.com/~w1gql/hex/buildyour.htm I, and another local Ham used info from Daves site to build our Hexbeams and they do seem to work OK. I've been thinking I'd add at least a 17 meter set of elements to my 20 meter antenna, but I've not yet done it. You might visit W1GQLs website and see what you can find. He has got something to say onsite regarding makling decisions about multiband Hexes. Visit him, I think you'll enjoy it.

Harold
KD5SAK

----- Original Message -----
From: "n1zw" <n1zw@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, January 12, 2006 1:15 PM
Subject: Re: [hex-beam] Re: Ordered new spreaders from Max-Gain

> Hi harold, thanks for the information , I take it as if I want to make
> the attempt for multibacnd they will have to increase in size then?
> Anyone know what the lenth minimum is for that? Being I live in New
> England there is weather to deal with sometimes pretty bad winters
> here.. Again thanks for all the info everyone, Robin n1zw

2979. Re: [hex-beam] Re: Ordered new spreaders from Max-Gain

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-12 20:05:42 UTC
From: Harold Burton
Topic: 2938 Message: 2979

Robin, I forgot to mention in my last message that W1GQL is a New Englander also.You two may be close enough to make for easy communication. Now that I think of it, Dave recently told me that his local AgWay store stocked fiberglass fence posts in a good size, 1/2" by 72 ". My local farm stores only stocked 3/8" by 48" posts, which complicated my construction.. Overlapping the 6 foot posts and using worm gear hose clamps to join them would probably give you plenty of spreader length. The electric fence posts are simply smooth fiberglass rods with a slightly sharpened end. I imagine those 1/2 inch diameter posts could carry a good deal of ice and snow, too.

Harold
KD5SAK

----- Original Message -----
From: "n1zw" <n1zw@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, January 12, 2006 1:15 PM
Subject: Re: [hex-beam] Re: Ordered new spreaders from Max-Gain

> Hi harold, thanks for the information , I take it as if I want to make
> the attempt for multibacnd they will have to increase in size then?
> Anyone know what the lenth minimum is for that? Being I live in New
> England there is weather to deal with sometimes pretty bad winters
> here.. Again thanks for all the info everyone, Robin n1zw

2980. Re: [hex-beam] Re: Ordered new spreaders from Max-Gain

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-13 00:07:45 UTC
From: n1zw
Topic: 2938 Message: 2980

Hello again Harold, and wow I can't tell you how more help this is for me. I really disapointed sometime because I just don't get it. I can blame my brain for that getting dumber everyday.I really appreciate all the great information and will put it too use. Thanks a great deal , n1zw Robin
----- Original Message -----
From: Harold Burton
To: hex-beam@yahoogroups.com
Sent: Thursday, January 12, 2006 3:05 PM
Subject: Re: [hex-beam] Re: Ordered new spreaders from Max-Gain

Robin, I forgot to mention in my last message that W1GQL is a New Englander also.You two may be close enough to make for easy communication. Now that I think of it, Dave recently told me that his local AgWay store stocked fiberglass fence posts in a good size, 1/2" by 72 ". My local farm stores only stocked 3/8" by 48" posts, which complicated my construction.. Overlapping the 6 foot posts and using worm gear hose clamps to join them would probably give you plenty of spreader length. The electric fence posts are simply smooth fiberglass rods with a slightly sharpened end. I imagine those 1/2 inch diameter posts could carry a good deal of ice and snow, too.

Harold
KD5SAK

----- Original Message -----
From: "n1zw" <n1zw@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, January 12, 2006 1:15 PM
Subject: Re: [hex-beam] Re: Ordered new spreaders from Max-Gain

> Hi harold, thanks for the information , I take it as if I want to make
> the attempt for multibacnd they will have to increase in size then?
> Anyone know what the lenth minimum is for that? Being I live in New
> England there is weather to deal with sometimes pretty bad winters
> here.. Again thanks for all the info everyone, Robin n1zw

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[Non-text portions of this message have been removed]

2981. 6 meters on the hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-15 16:10:34 UTC
From: buysmart2002
Topic: 2981 Message: 2981

Has anyone strung a hexbeam multi-bander with six meters? If so how did it perform?

Leo, K4KIO

2982. Re: [hex-beam] 6 meters on the hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-15 16:14:01 UTC
From: bur52@aol.com
Topic: 2981 Message: 2982

Hi
When I was talking to Mr Traffie regarding it, he helt it was doable, but the swr was an issue...not sure if was a match problem...but I wnted to use it instead of 10 meters..and custom build it. I don't see what it could not be done??
kb3lxy

[Non-text portions of this message have been removed]

2983. F8AFC Where are you?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-17 10:45:54 UTC
From: dl7io
Topic: 2983 Message: 2983

Hello Ronan,
I hope you still read this forum. Since Dec. I try to reach you without any success. Mails are coming back etc. Please contact me shortly.
73 Holger

2984. Re: 6 meters on the hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-17 11:22:45 UTC
From: Colin
Topic: 2981 Message: 2984

Hi Leo

Jan (PA2JJB)added a seperately fed 6m element to a 5 band hex with good results.
The pics are in the photo section and some details are in message #2301

Colin 2e0xbm

--- In hex-beam@yahoogroups.com, "buysmart2002" <buysmart2002@y...>
wrote:
>
> Has anyone strung a hexbeam multi-bander with six meters? If so how
> did it perform?
>
> Leo, K4KIO
>

2985. hex beam only for the magic bands 50mhz

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-17 22:49:45 UTC
From: hfdannyke
Topic: 2985 Message: 2985

hello people

so i'am fasinated about the hexbeam ,and i'am ask me the question are there any hex monoband exsist for 50 mhz

tnx for any replay in advanage de danny on7ddg

2986. Re: [hex-beam] hex beam only for the magic bands 50mhz

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-18 01:55:38 UTC
From: bur52@aol.com
Topic: 2985 Message: 2986

Home brew..a single band would be pretty easy. As the size alone will make it managable.
..or M. Traffie does sel one too.

JohnB
kb3lxy

[Non-text portions of this message have been removed]

2987. Re: [hex-beam] hex beam only for the magic bands 50mhz

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-18 11:47:11 UTC
From: Mike Van Winkle
Topic: 2985 Message: 2987

but if you buy from traffie be prepared for wallet
shock!!

--- bur52@... wrote:

> Home brew..a single band would be pretty easy. As
> the size alone will make
> it managable.
> ..or M. Traffie does sel one too.
>
> JohnB
> kb3lxy
>
>
>
>
> [Non-text portions of this message have been
> removed]
>
>

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2988. Re: [hex-beam] hex beam only for the magic bands 50mhz

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-18 13:01:09 UTC
From: Darren G0TSM
Topic: 2985 Message: 2988

Unless your property is under 1.6M wide or you are installing it in
your attic then use a 3 (or more) ele yagi.
A 3 ele yagi will have more gain and better rejection off of the back
than a mono band hexbeam.

Darren

At 22:49 17/01/2006, you wrote:
>hello people
>
>so i'am fasinated about the hexbeam ,and i'am ask me the question are
>there any hex monoband exsist for 50 mhz
>
>tnx for any replay in advanage de danny on7ddg
>
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iC8GGoCL9kiQ>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and
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vVOWEbA7816ZBA>Craft
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3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&w6=Ferrite+bead&c=6&s=119&.s
ig=T3gnM4llATSMV1leG-ZPnA>Hobby
>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+
and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&w6=Ferrite+bead&c=6&s=119&.sig=Uj_8y
V43XWzueI5Zk_HCmQ>Icom
>ham radio
><http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby
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76uK0XxxAGxJyHflmw>Yaesu
>ham radio
><http://groups.yahoo.com/gads?t=ms&k=Ferrite+bead&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+an
d+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&w6=Ferrite+bead&c=6&s=119&.sig=5tHjcSH

15_QPjaiKed2Q1Q>Ferrite
>bead
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2989. Re: hex beam only for the magic bands 50mhz

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-19 23:07:45 UTC
From: Colin
Topic: 2985 Message: 2989

Hi Darren
What you say is very true but from the economics point of view or perhaps as a temporary measure to get on 6m with a half decent antenna it`s is only going to cost ..well almost nothing if you already have the 5 band spreaders in place.

The mast and rotator won`t even notice it, and more importantly perhaps, neither will the neighbours :)

Colin 2E0XBM

--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@g...> wrote:
>
> Unless your property is under 1.6M wide or you are installing it in
> your attic then use a 3 (or more) ele yagi.
> A 3 ele yagi will have more gain and better rejection off of the
back
> than a mono band hexbeam.
>
> Darren
>
>
>
> At 22:49 17/01/2006, you wrote:
> >hello people
> >
> >so i'am fasinated about the hexbeam ,and i'am ask me the question
are
> >there any hex monoband exsist for 50 mhz
> >
> >tnx for any replay in advanage de danny on7ddg
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t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply
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5jEf4kKG0iC8GGoCL9kiQ>Ham
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=aHsCRQZMvVOWEbA7816ZBA>Craft
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t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and
+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&w6=Ferrite+bead&c=6
&s=119&.sig=T3gnM4llATSMV1leG-ZPnA>Hobby
> >and craft supply
> ><http://groups.yahoo.com/gads?
t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+s
upply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&w6=Ferrite+bead&c=6&s=119&.
sig=Uj_8yV43XWzueI5Zk_HCmQ>Icom
> >ham radio
> ><http://groups.yahoo.com/gads?
t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+
supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&w6=Ferrite+bead&c=6&s=119&
.sig=Wlo576uK0XxxAGxJyHflmw>Yaesu
> >ham radio
> ><http://groups.yahoo.com/gads?
t=ms&k=Ferrite+bead&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+sup
ply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&w6=Ferrite+bead&c=6&s=119&.si
g=5tHjcSH15_QPjaiKed2Q1Q>Ferrite
> >bead
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>

2990. Hex Beam Height

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-20 02:05:23 UTC
From: ki4jwy
Topic: 2990 Message: 2990

I have a 70 foot tower that is the only place I can mount my 5 band hex beam. That would be 50 foot over my house and my metal shop building. Would the performance suffer at that height?

John

[Non-text portions of this message have been removed]

2991. Re: Hex Beam Height

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-20 02:45:18 UTC
From: w4wb
Topic: 2990 Message: 2991

You will be happy John!
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "ki4jwy" <ki4jwy@y...> wrote:
>
> I have a 70 foot tower that is the only place I can mount my 5 band
hex beam. That would be 50 foot over my house and my metal shop
building. Would the performance suffer at that height?
>
> John
>
>
>
> [Non-text portions of this message have been removed]
>

2992. My Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-22 10:19:55 UTC
From: Darren G0TSM
Topic: 2992 Message: 2992

Hi All,
I've put up some pictures of the display from my quadra amp and you can see the SWR curves on my homebrew 5 band Hexbeam. The SWR isn't perfect but when I had perfect SWR on 5 bands the performance was terrible.

http://www.gb7edx.com/Hexbeam SWR.html

73 Darren

2993. Re: [hex-beam] My Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-22 15:23:53 UTC
From: buysmart2002
Topic: 2992 Message: 2993

Darren:

In support of your point, it is worth noting that SWR affects mainly the amount of power that gets transmitted to the antenna system; not the radiation pattern or effectiveness. When you do the numbers, the difference between an SWR of 3:1 vs 1:1 in terms of power loss is less than one dB.

73,
Leo, K4KIO

Darren G0TSM <hexbeam@...> wrote: Hi All,
I've put up some pictures of the display from my quadra amp and you
can see the SWR curves on my homebrew 5 band Hexbeam. The SWR isn't
perfect but when I had perfect SWR on 5 bands the performance was terrible.

http://www.gb7edx.com/Hexbeam SWR.html

73 Darren

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[Non-text portions of this message have been removed]

2994. Re: My Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-23 17:54:49 UTC
From: Mark
Topic: 2992 Message: 2994

Those a real good SWR plots except for 10m your covering the whole band with less than 2:1. For 10m its most of the band. No traps to eat power as in a traditional Yagi so in the end you may come out ahead with a hex.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, buysmart2002 <buysmart2002@y...> wrote:
>
> Darren:
>
> In support of your point, it is worth noting that SWR affects mainly the amount of power that gets transmitted to the antenna system; not the radiation pattern or effectiveness. When you do the numbers, the difference between an SWR of 3:1 vs 1:1 in terms of power loss is less than one dB.
>
> 73,
> Leo, K4KIO
>
> Darren G0TSM <hexbeam@g...> wrote: Hi All,
> I've put up some pictures of the display from my quadra amp and you
> can see the SWR curves on my homebrew 5 band Hexbeam. The SWR isn't
> perfect but when I had perfect SWR on 5 bands the performance was terrible.
>
> http://www.gb7edx.com/Hexbeam SWR.html
>
>
>
>
> 73 Darren
>
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>
> [Non-text portions of this message have been removed]
>

2995. 20 , 15, 10 Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-25 11:17:08 UTC
From: outbackstu
Topic: 2995 Message: 2995

Hi to all,

Just wondering what the dimensions for a tri band hex for 20,15,10m would be.

Should I use the dimensions for the 5 band version minus the bands I do not need ?

I cannot see anything in the files

Thanks

Stu VK2MIC Australia

2996. Re: [hex-beam] 20 , 15, 10 Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-25 16:55:19 UTC
From: Pieter & Petro du Toit
Topic: 2995 Message: 2996

Hi Stu just the same you just leave the other out or you just dont fit them but i would think it is a wast not to fit other bands wil your are busy builting good luck ,Pieter zl1pdt ,nz
From: outbackstu
To: hex-beam@yahoogroups.com
Sent: Thursday, January 26, 2006 12:17 AM
Subject: [hex-beam] 20 , 15, 10 Hexbeam

Hi to all,

Just wondering what the dimensions for a tri band hex for 20,15,10m would be.

Should I use the dimensions for the 5 band version minus the bands I do not need ?

I cannot see anything in the files

Thanks

Stu VK2MIC Australia

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[Non-text portions of this message have been removed]

2997. Making progress on MkII version

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-01-30 18:07:34 UTC
From: Mark
Topic: 2997 Message: 2997

I have been making progress on a MkII version of my beam. Over the weekend, I completed a new center mast with interal feed (Holger is right, it is a labor of love)and a new base plate. The rest should go together Friday since I have off from work.

No pictures yet, but they will be coming.

2998. Dimensions for six meters on a multiband hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-01 14:32:18 UTC
From: buysmart2002
Topic: 2998 Message: 2998

Does anyone have the lengths and spaces for six meter elements that could be added to a five band hexbeam?

Thanks.

Leo, K4KIO

2999. 40 meter homebrew hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-01 17:15:53 UTC
From: Dave
Topic: 2999 Message: 2999

Hello groupies,

Has any stateside station built a 40 meter version. If so, I would like to chat with them to work out the practical considerations of the project.

73
Dave W1CTN

3000. HXB5i #413

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-05 08:54:08 UTC
From: David Lear
Topic: 3000 Message: 3000

A week ago I assembled and raised HXB5i #413 (with some help) and have made a photo album of the happenings, including SWR plots. It was assembled in a fairly unusual position (see photos). It is at 29ft in an antenna restricted area, with the arms painted gray, You can see I have taken some NVIS liberties, with the view from the front of the house. It is also installed over some attic mounted gas furnaces and the resulting SWR curves show the variation in the beam heading vs. SWR. My K2 ATU easily matches the worst SWR conditions.

One of the first contacts was EA8AX who was also operating a Hex Beam. Since then made several European QSOs at 100W on 15 and 17M, so it seems to working OK. Worked about 30 QSOs in FYBO on Saturday from the house, within a couple of hours operating.

73,Dave NE5DL

3001. Re: [hex-beam] HXB5i #413

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-05 21:40:50 UTC
From: Rick Kourey (K4KL)
Topic: 3000 Message: 3001

Where are the pictures.

Rick Kourey (K4KL)
Marvin -- Charlotte, NC
rkourey@...

----- Original Message -----
From: "David Lear" <delear@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, February 05, 2006 3:54 AM
Subject: [hex-beam] HXB5i #413

>A week ago I assembled and raised HXB5i #413 (with some help) and have
> made a photo album of the happenings, including SWR plots. It was
> assembled in a fairly unusual position (see photos). It is at 29ft in
> an antenna restricted area, with the arms painted gray, You can see I
> have taken some NVIS liberties, with the view from the front of the
> house. It is also installed over some attic mounted gas furnaces and
> the resulting SWR curves show the variation in the beam heading vs.
> SWR. My K2 ATU easily matches the worst SWR conditions.
>
> One of the first contacts was EA8AX who was also operating a Hex Beam.
> Since then made several European QSOs at 100W on 15 and 17M, so it
> seems to working OK. Worked about 30 QSOs in FYBO on Saturday from the
> house, within a couple of hours operating.
>
> 73,Dave NE5DL
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3002. Re: HXB5i #413

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-07 06:00:54 UTC
From: David Lear
Topic: 3000 Message: 3002

Rick
In the NE5DL album.
73
Dave NE5DL

-- In hex-beam@yahoogroups.com, "Rick Kourey \(K4KL\)" <rkourey@...>
wrote:
>
> Where are the pictures.
>
> Rick Kourey (K4KL)
> Marvin -- Charlotte, NC
> rkourey@...
>
>
>
>
> ----- Original Message -----
> From: "David Lear" <delear@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Sunday, February 05, 2006 3:54 AM
> Subject: [hex-beam] HXB5i #413
>
>
> >A week ago I assembled and raised HXB5i #413 (with some help) and
have
> > made a photo album of the happenings, including SWR plots. It
was
> > assembled in a fairly unusual position (see photos). It is at
29ft in
> > an antenna restricted area, with the arms painted gray, You can
see I
> > have taken some NVIS liberties, with the view from the front of
the
> > house. It is also installed over some attic mounted gas furnaces
and
> > the resulting SWR curves show the variation in the beam heading
vs.
> > SWR. My K2 ATU easily matches the worst SWR conditions.
> >
> > One of the first contacts was EA8AX who was also operating a Hex
Beam.
> > Since then made several European QSOs at 100W on 15 and 17M, so
it
> > seems to working OK. Worked about 30 QSOs in FYBO on Saturday

from the
> > house, within a couple of hours operating.
> >
> > 73,Dave NE5DL
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3003. Six Band Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-09 15:22:13 UTC
From: buysmart2002
Topic: 3003 Message: 3003

I just finished adding six meters to my previously 5 band hexbeam. The SWR was pretty flat but lower at the high end of the band. I don't plan to try to correct this as the tuner will take care of it anyway.

I am using the same feedline for all bands and it is connected at the ten meter elements (previously the bottom). Six meters created no noticeable effects on the other bands. No baluns or toroids.

My web site has been updated for the new addition, including SWR figures at www.leoshoemaker.com/hexbeambyk4kio/general.html

73,

Leo K4KIO

3004. HEX ON 6 METERS

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-09 13:20:01 UTC
From: Mike Brooks
Topic: 3004 Message: 3004

HAS OR DOES ANYONE USE A HEX ON 6 METERS?
A 6M-FAN !
KG4WHJ
MIKE,EM-80ct.

3005. Newbie question on homebrew 20m hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-09 16:34:26 UTC
From: max_ve3tmt
Topic: 3005 Message: 3005

Hi all to the group,

After considering a homebrew quad, I have decided to go with a hexbeam due to the size and weight differences. I have been researching on the net and see lots of good articles on homebrewing but am confused about the actual wiring of the hexbeam. Is the element wire just strung around the perimeter of the supports? Can someone please explain the basic operation principple and construction to me. Sorry for the dumb questions, but I am racking my brain with this.

Max VE3TMT

3006. Re: Newbie question on homebrew 20m hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-10 11:49:27 UTC
From: max_ve3tmt
Topic: 3005 Message: 3006

After doing more research, and an excellent on-line article by K4KIO, I answered my own questions.

1. I am only going to be able to put the beam up 20-25 feet at the most. Will this be high enough for satifactory results? Current antenna is an R7, which work great, but I want something with directivity to help in certain areas.

2. I am still deciding over a single band 20m or 20,17,15 and 10m multiband. Will I be able to feed all driven elements with one coax feed and have good results?

I apologize for all the questions, this is my project in the works and I plan on hitting the ground running come spring!

Thanks,

Max VE3TMT

3007. Re: [hex-beam] Re: Newbie question on homebrew 20m hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-10 16:08:31 UTC
From: Darren G0TSM
Topic: 3005 Message: 3007

Maybe I can convince you to build the 5 band version..

Here's a file, first you hear W2MAT on an R8 vertical, then switched
to my homebrew 5 band Hexbeam and then back to the vertical. I had to
edit out a few ms of the file as there was a short gap while cycling
through the antennae, but it was only a few ms. file size 79K.

http://www.gb7edx.com/w2mat.mp3

Darren G0TSM

At 11:49 10/02/2006, you wrote:
>After doing more research, and an excellent on-line article by K4KIO,
>I answered my own questions.
>
>1. I am only going to be able to put the beam up 20-25 feet at the most.
> Will this be high enough for satifactory results? Current antenna is
> an R7, which work great, but I want something with directivity to
> help in certain areas.
>
>2. I am still deciding over a single band 20m or 20,17,15 and 10m
> multiband. Will I be able to feed all driven elements with one coax
> feed and have good results?
>
>
>I apologize for all the questions, this is my project in the works and
>I plan on hitting the ground running come spring!
>
>Thanks,
>
>Max VE3TMT
>
>
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3008. Re: [hex-beam] Re: Newbie question on homebrew 20m hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-10 16:11:47 UTC
From: Darren G0TSM
Topic: 3005 Message: 3008

I forgot to say, this is on 17M.....

At 16:08 10/02/2006, you wrote:
>Maybe I can convince you to build the 5 band version..
>
>Here's a file, first you hear W2MAT on an R8 vertical, then switched
>to my homebrew 5 band Hexbeam and then back to the vertical. I had to
>edit out a few ms of the file as there was a short gap while cycling
>through the antennae, but it was only a few ms. file size 79K.
>
><http://www.gb7edx.com/w2mat.mp3>http://www.gb7edx.com/w2mat.mp3
>
>
>
>Darren G0TSM
>
>At

3009. Re: [hex-beam] HEX ON 6 METERS

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-10 15:38:15 UTC
From: Dale
Topic: 3004 Message: 3009

check this site he has a 6 through 20 hex
http://www.leoshoemaker.com/k4kio.html
k8nke

At 01:20 PM 2/9/06, you wrote:

> HAS OR DOES ANYONE USE A HEX ON 6 METERS?
>A 6M-FAN !
>KG4WHJ
>MIKE,EM-80ct.
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>Yahoo! Groups Links
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>--
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.1.375 / Virus Database: 267.15.5/256 - Release Date: 2/10/06

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.1.375 / Virus Database: 267.15.5/256 - Release Date: 2/10/06

3010. Re: [hex-beam] HEX ON 6 METERS

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-10 18:32:56 UTC
From: Harold Burton
Topic: 3004 Message: 3010

As an example of HexBeam extremes I recently saw a photo of a man wearing a hard hat with a short PVC mast with a 2 meter hexbeam mounted on top of it. Rotation was accomplished by simply turning his head or entire body.

Harold
KD5SAK

----- Original Message -----
From: "Dale" <dmess4391@...>
To: <hex-beam@yahoogroups.com>
Sent: Friday, February 10, 2006 9:38 AM
Subject: Re: [hex-beam] HEX ON 6 METERS

> check this site he has a 6 through 20 hex
> http://www.leoshoemaker.com/k4kio.html
> k8nke
>
> At 01:20 PM 2/9/06, you wrote:
>
>> HAS OR DOES ANYONE USE A HEX ON 6 METERS?
>>A 6M-FAN !
>>KG4WHJ
>>MIKE,EM-80ct.

3011. Re: Newbie question on homebrew 20m hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-10 19:24:28 UTC
From: max_ve3tmt
Topic: 3005 Message: 3011

--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@...> wrote:
>
> Maybe I can convince you to build the 5 band version..

Aside from more wire, can I feed all radiating elements with one coax line? If so I figure for a little more string of elements it won't add much more weight and I will have a real multiband antenna. I have listened to some comparisons elsewhere and the difference is amazing. I would love to hear a VU2 or the VK's nice and loud but on the vertical no way!!!

Max VE3TMT

3012. Re: Newbie question on homebrew 20m hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-10 22:02:15 UTC
From: Mark
Topic: 3005 Message: 3012

I have now built two five band versions. The five'r is definitely more work esspecially if you build the center mast with internal feed. But you do have directivity on all 5 bands. If the coming snow doesn't stop me this one will be going up on 20 feet of light tower this weekend.

The first version was on a 20 foot mast with its base plate around 23 feet. Not perfect but it performed quite well in CQ WW CW. Definitely broke pile-ups a lot easier and gave me 2 S-units over my R7 vertical.

HTH

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "max_ve3tmt" <max_ve3tmt@...> wrote:
>
> After doing more research, and an excellent on-line article by K4KIO,
> I answered my own questions.
>
> 1. I am only going to be able to put the beam up 20-25 feet at the most.
> Will this be high enough for satifactory results? Current antenna is
> an R7, which work great, but I want something with directivity to
> help in certain areas.
>
> 2. I am still deciding over a single band 20m or 20,17,15 and 10m
> multiband. Will I be able to feed all driven elements with one coax
> feed and have good results?
>
>
> I apologize for all the questions, this is my project in the works and
> I plan on hitting the ground running come spring!
>
> Thanks,
>
> Max VE3TMT
>

3013. What's the best way to wire up the spreaders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-10 22:05:02 UTC
From: Mark
Topic: 3013 Message: 3013

I've got my second version built and out on the picnic table. The fiberglass spreaders are a lot better than PVC but the two end ones (where the director and reflector wires come together) bow toward the driven side. A couple of the others have slight S shapes to them.

In both antennas I started wiring from 20m. would I get better shape by 10m then 12m, ...?

What other tips are there for assembling this area?

73,
Mark N3GNW

3014. Re: [hex-beam] What's the best way to wire up the spreaders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-11 02:01:26 UTC
From: buysmart2002
Topic: 3013 Message: 3014

Mark,

you might want to use nylon twine to achieve the right shape before stringing the wires on. Use twelve pieces exactly the same length about 9 1/2 feet each.

String six lines around the perimeter and six radials from end of spreaders to the center. This will keep the whole thing in the right shape while you install the wires. Then later, if the wires provide the tension on the spreaders, you can remove the twine.

This approach I used is described at www.leoshoemaker.com/k4kio.html

Leo, K4KIO

Mark <n3gnw@...> wrote: I've got my second version built and out on the picnic table. The fiberglass spreaders are a lot better than PVC but the two end ones (where the director and reflector wires come together) bow toward the driven side. A couple of the others have slight S shapes to them.

In both antennas I started wiring from 20m. would I get better shape by 10m then 12m, ...?

What other tips are there for assembling this area?

73,
Mark N3GNW

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[Non-text portions of this message have been removed]

3015. Its up and working

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-13 14:13:22 UTC
From: Mark
Topic: 3015 Message: 3015

The MkII version is up and working! (Sorry no PIX yet, priority was getting it up.) I put together 20 of the 30 feet of old Rohn 6 light weight tower I picked up, hooked everything together and my neighbor who had just came home from Florida rushed over to give me a hand and erect it as snow started to fall. Perfect antenna weather. At first SWR was through the roof on 15-20. After racking my brain I realized the PL-259's and barrel connector had been wet with snow. Even though I blew the worst of it off there was probably some water left. After the snow ended Sunday (about 14 inches - 35 cm) I took my heat gun out disassembled the connection, dried it off and voila! 1:1 to 1.5:1 accross ALL bands.

Unfortunately the plywood base plate (0.5 inch thick) is starting to wasrp from the tension of the spreaders. I'm going to need to look into metal or the cutting board K4KIO used.

First contact 3Y0X. I'm happy!

73,
Mark N3GNW

3016. Re: [hex-beam] Its up and working

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-13 15:07:10 UTC
From: Leon
Topic: 3015 Message: 3016

Hi Mark
you are a lucky man...here no way to contact 3y0x
Setup in markVfield, 6 elements optibeam triband and sb200 ampli...
see you in the pile up

IZ?EHO Andrea
www.iz0eho.com

----- Original Message -----
From: "Mark" <n3gnw@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, February 13, 2006 3:13 PM
Subject: [hex-beam] Its up and working

> The MkII version is up and working! (Sorry no PIX yet, priority was
> getting it up.) I put together 20 of the 30 feet of old Rohn 6
> light weight tower I picked up, hooked everything together and my
> neighbor who had just came home from Florida rushed over to give me
> a hand and erect it as snow started to fall. Perfect antenna
> weather. At first SWR was through the roof on 15-20. After racking
> my brain I realized the PL-259's and barrel connector had been wet
> with snow. Even though I blew the worst of it off there was
> probably some water left. After the snow ended Sunday (about 14
> inches - 35 cm) I took my heat gun out disassembled the connection,
> dried it off and voila! 1:1 to 1.5:1 accross ALL bands.
>
> Unfortunately the plywood base plate (0.5 inch thick) is starting to
> wasrp from the tension of the spreaders. I'm going to need to look
> into metal or the cutting board K4KIO used.
>
> First contact 3Y0X. I'm happy!
>
> 73,
> Mark N3GNW
>
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> Yahoo! Groups Links
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3017. Re: [hex-beam] Its up and working

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-13 16:08:19 UTC
From: n1zw
Topic: 3015 Message: 3017

Hi Mark , first congrats on getting the beam up. Results are very impresive I can't wait to get started on my own hexbeam here. Good and long luck with it. Robin n1zw
----- Original Message -----
From: Mark
To: hex-beam@yahoogroups.com
Sent: Monday, February 13, 2006 9:13 AM
Subject: [hex-beam] Its up and working

The MkII version is up and working! (Sorry no PIX yet, priority was getting it up.) I put together 20 of the 30 feet of old Rohn 6 light weight tower I picked up, hooked everything together and my neighbor who had just came home from Florida rushed over to give me a hand and erect it as snow started to fall. Perfect antenna weather. At first SWR was through the roof on 15-20. After racking my brain I realized the PL-259's and barrel connector had been wet with snow. Even though I blew the worst of it off there was probably some water left. After the snow ended Sunday (about 14 inches - 35 cm) I took my heat gun out disassembled the connection, dried it off and voila! 1:1 to 1.5:1 accross ALL bands.

Unfortunately the plywood base plate (0.5 inch thick) is starting to wasrp from the tension of the spreaders. I'm going to need to look into metal or the cutting board K4KIO used.

First contact 3Y0X. I'm happy!

73,
Mark N3GNW

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[Non-text portions of this message have been removed]

3018. Re: [hex-beam] Its up and working

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-13 19:35:14 UTC
From: buysmart2002
Topic: 3015 Message: 3018

Mark, congrats. Send us the photos and let us know how it performs. SWR is amazing, isn't it?

73, Leo k4kio

Mark <n3gnw@...> wrote: The MkII version is up and working! (Sorry no PIX yet, priority was getting it up.) I put together 20 of the 30 feet of old Rohn 6 light weight tower I picked up, hooked everything together and my neighbor who had just came home from Florida rushed over to give me a hand and erect it as snow started to fall. Perfect antenna weather. At first SWR was through the roof on 15-20. After racking my brain I realized the PL-259's and barrel connector had been wet with snow. Even though I blew the worst of it off there was probably some water left. After the snow ended Sunday (about 14 inches - 35 cm) I took my heat gun out disassembled the connection, dried it off and voila! 1:1 to 1.5:1 accross ALL bands.

Unfortunately the plywood base plate (0.5 inch thick) is starting to wasrp from the tension of the spreaders. I'm going to need to look into metal or the cutting board K4KIO used.

First contact 3Y0X. I'm happy!

73,
Mark N3GNW

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3019. Thoughts on PVC as spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-13 20:02:58 UTC
From: max_ve3tmt
Topic: 3019 Message: 3019

The local Home Depot sells 10 foot lengths of 1/2" PVC conduit for $3.49 each. It seems to flex pretty good and no doubt with the right nylon reinforcing cord I would think it would hold fine. Any reasons why not to use this material for spreaders? The length is ideal, I can put 1/2" dowel inside for clamping to the hub. I have begun sourcing parts for my first hex beam.

Max

3020. Re: Thoughts on PVC as spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-13 21:22:07 UTC
From: Mark
Topic: 3019 Message: 3020

Max,

My first version used PVC electrical conduit. You really need to put 8 feet of 1/2 inch wood dowels to give it some reasonable stiffness. Holger DL7IO notes that at high power levels the PVC tends to soften even more. Others have noted the same problem in warm weather. (I max out around 600W and my first version was only used in cool weather.)

If I had to resurrect this version, I would place the base plate on the ground and lay out the PVC spreaders straight from the p;ate and then tie the ends and mid-points of the spreaders toghether to define the initial shape.

Pictures of my first version can be found in the photo section here.

The second version is using fiberglass spreaders.

73,
mark N3GNW

--- In hex-beam@yahoogroups.com, "max_ve3tmt" <max_ve3tmt@...> wrote:
>
> The local Home Depot sells 10 foot lengths of 1/2" PVC conduit for
> $3.49 each. It seems to flex pretty good and no doubt with the right
> nylon reinforcing cord I would think it would hold fine. Any reasons
> why not to use this material for spreaders? The length is ideal, I
can
> put 1/2" dowel inside for clamping to the hub. I have begun sourcing
> parts for my first hex beam.
>
> Max
>

3021. Re: [hex-beam] Thoughts on PVC as spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-14 01:11:52 UTC
From: Harold Burton
Topic: 3019 Message: 3021

----- Original Message -----
From: "max_ve3tmt" <max_ve3tmt@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, February 13, 2006 2:02 PM
Subject: [hex-beam] Thoughts on PVC as spreaders

> The local Home Depot sells 10 foot lengths of 1/2" PVC conduit for
> $3.49 each. It seems to flex pretty good and no doubt with the right
> nylon reinforcing cord I would think it would hold fine. Any reasons
> why not to use this material for spreaders? The length is ideal, I can
> put 1/2" dowel inside for clamping to the hub. I have begun sourcing
> parts for my first hex beam.
>
> Max
>
>
>
>
Take a look in your local farm and ranch stores and see what they've got
in the way of
fiberglass electric fence posts. Here in southern Oklahoma these stores
stock just 3/8"
by 48" fiberglass rods for such use. Dave Billheimer in New England
found the AgWay (believe that's the name) stores had 1/2" by 72"
fiberglass rod fence posts. If your local stores have either size you
can find a way to make them work. Wish I coulda got the larger ones, but
I made do with the 3/8" by 48" posts when I built my Hexbeam.

Harold
KD5SAK

3022. Re: Thoughts on PVC as spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-14 03:04:09 UTC
From: max_ve3tmt
Topic: 3019 Message: 3022

Thanks for all the insight and ideas guys. Looks like PVC, although cheap, isn't the best way to go. In my city, farming is not big, but I will look around the local Co-op store and see if they have fence posts. Walmart or one of the other sports stores may have the fishing poles but I really wasn't hoping to spend that much seeing as it is my first hexbeam.

Max

3023. Re: [hex-beam] Thoughts on PVC as spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-14 03:34:18 UTC
From: John Lepire
Topic: 3019 Message: 3023

well i have used pvc for a 10 meter 2 element quad i made . it did pretty
good . but at that length it tended to sag . it did real well for a 2 meter
, 8 element quad . it just tends to sag with too much length and or wieght .
you could use dowel rod to strangthen it but then again why not just use
dowel ?? jL kd5dfm

----- Original Message -----
From: "Harold Burton" <kd5sak@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, February 13, 2006 7:11 PM
Subject: Re: [hex-beam] Thoughts on PVC as spreaders

>
> ----- Original Message -----
> From: "max_ve3tmt" <max_ve3tmt@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Monday, February 13, 2006 2:02 PM
> Subject: [hex-beam] Thoughts on PVC as spreaders
>
>

3024. Re: [hex-beam] Re: Thoughts on PVC as spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-14 03:44:59 UTC
From: Harold Burton
Topic: 3019 Message: 3024

----- Original Message -----
From: "max_ve3tmt" <max_ve3tmt@...>
To: <hex-beam@yahoogroups.com>
Sent: Monday, February 13, 2006 9:04 PM
Subject: [hex-beam] Re: Thoughts on PVC as spreaders

> Thanks for all the insight and ideas guys. Looks like PVC, although
> cheap, isn't the best way to go. In my city, farming is not big, but I
> will look around the local Co-op store and see if they have fence
> posts. Walmart or one of the other sports stores may have the fishing
> poles but I really wasn't hoping to spend that much seeing as it is my
> first hexbeam.
>
> Max
>

The 3/8" by 4 foot posts are 99 cents each here in the Red River valley. The 1/2" by 6 footers are probably about $3 (if I could find them). They'll be both cheaper and stronger than fishing rods. A dozen of these larger posts cost about $30 ordered on the net, but shipping runs above $50. That's why you've got to find a local source, the shipping costs are horrendous. All you can do is shop the local farm/ranch stores and hope you're lucky.

Harold
KD5SAK

3025. Re: [hex-beam] Thoughts on PVC as spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-14 19:14:26 UTC
From: Hello
Topic: 3019 Message: 3025

Go with 3/4 pvc if anything and run ties on the ends and across and in the middle and you can get it nice and stright and pretty tight
----- Original Message -----
From: max_ve3tmt
To: hex-beam@yahoogroups.com
Sent: Monday, February 13, 2006 12:02 PM
Subject: [hex-beam] Thoughts on PVC as spreaders

The local Home Depot sells 10 foot lengths of 1/2" PVC conduit for $3.49 each. It seems to flex pretty good and no doubt with the right nylon reinforcing cord I would think it would hold fine. Any reasons why not to use this material for spreaders? The length is ideal, I can put 1/2" dowel inside for clamping to the hub. I have begun sourcing parts for my first hex beam.

Max

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[Non-text portions of this message have been removed]

3026. Hex Beam In 3 hrs?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-15 00:22:58 UTC
From: xalunt
Topic: 3026 Message: 3026

I Dont think so guys ,not if your going to homebrew one ..there is no way in hell your going to do this antenna in 3 hrs.Take your time and have lots of paitents and when you come to the stringing of wire take good string and align all 6 noodles cuz thats what they are and run 3 sets of string up the poles and a set across top to center post and one all around top and work with those till all poles are straight then work with your wire .You have to go back and forth several times till it is all straight and believe me its a time consuming process and not 3 hrs for the complete ant.Dont get discouraged by this posting I just want all homebrewers to know it all takes time .Good Luck on building a good ant. Larry

3027. Re: Hex Beam In 3 hrs?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-15 01:03:38 UTC
From: Colin
Topic: 3026 Message: 3027

Hi Larry,
Once you have the experience of homebrewing a five band hex complete
with that associated 60 mile hike round and round the antenna :)

It should be possible to build a monobander from scratch in under 3
hours if you have all the tools and materials to hand.
For a 5 bander you would need at least a long weekend ;)

Colin 2E0XBM

--- In hex-beam@yahoogroups.com, "xalunt" <ag8o1@...> wrote:
>
> I Dont think so guys ,not if your going to homebrew one ..there is no
> way in hell your going to do this antenna in 3 hrs.Take your time
and
> have lots of paitents and when you come to the stringing of wire take
> good string and align all 6 noodles cuz thats what they are and run 3
> sets of string up the poles and a set across top to center post and
> one all around top and work with those till all poles are straight
> then work with your wire .You have to go back and forth several times
> till it is all straight and believe me its a time consuming process
> and not 3 hrs for the complete ant.Dont get discouraged by this
> posting I just want all homebrewers to know it all takes time .Good
> Luck on building a good ant. Larry
>

3028. Re: Hex Beam In 3 hrs?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-15 01:55:05 UTC
From: Mark
Topic: 3026 Message: 3028

The first version took a little over two complete weekends. The second version about the same. While I didn't have to re-cut the wire I did build an internal feed mast. Holger is right, its a labor of love!

At one point I had to disassemble the internal feed to fix a broken solder connection. The trick I learned there which made reassembling a lot easier, was to drill 1/4 inch holes for the 8-32 screws I used. I put an extra washer on the screws before re-inserting the feed line. This gives more bearing surface so the screw heads don't work there way out. I need to add a little sealent around all these holes since they are now much larger than the screw.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "xalunt" <ag8o1@...> wrote:
>
> I Dont think so guys ,not if your going to homebrew one ..there is
no
> way in hell your going to do this antenna in 3 hrs.Take your time
and
> have lots of paitents and when you come to the stringing of wire
take
> good string and align all 6 noodles cuz thats what they are and
run 3
> sets of string up the poles and a set across top to center post
and
> one all around top and work with those till all poles are straight
> then work with your wire .You have to go back and forth several
times
> till it is all straight and believe me its a time consuming
process
> and not 3 hrs for the complete ant.Dont get discouraged by this
> posting I just want all homebrewers to know it all takes
time .Good
> Luck on building a good ant. Larry
>

3029. Re: Hex Beam In 3 hrs?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-15 02:35:12 UTC
From: Colin
Topic: 3026 Message: 3029

Hi Mark,
I can sympathise with you on that internal feed.
My solution was to drill holes in a 2"x1" timber that match the post
hole locations.
I put 5 brass bolts into the timber and soldered the heavy copper
feed to the bolt heads.
You then fish the entire "string" down the post and turn it ,as long
as you line up the top bolt,the rest will miraculously appear through
the slightly oversized holes with a little gentle shaking of the post.

Worked well for me :)

--- In hex-beam@yahoogroups.com, "Mark" <n3gnw@...> wrote:
>
> The first version took a little over two complete weekends. The
> second version about the same. While I didn't have to re-cut the
> wire I did build an internal feed mast. Holger is right, its a
> labor of love!
>
> At one point I had to disassemble the internal feed to fix a broken
> solder connection. The trick I learned there which made
> reassembling a lot easier, was to drill 1/4 inch holes for the 8-32
> screws I used. I put an extra washer on the screws before re-
> inserting the feed line. This gives more bearing surface so the
> screw heads don't work there way out. I need to add a little
> sealent around all these holes since they are now much larger than
> the screw.
>
> 73,
> Mark N3GNW
>
> --- In hex-beam@yahoogroups.com, "xalunt" <ag8o1@> wrote:
> >
> > I Dont think so guys ,not if your going to homebrew one ..there
is
> no
> > way in hell your going to do this antenna in 3 hrs.Take your
time
> and
> > have lots of paitents and when you come to the stringing of wire
> take
> > good string and align all 6 noodles cuz thats what they are and
> run 3
> > sets of string up the poles and a set across top to center post
> and

> > one all around top and work with those till all poles are
straight
> > then work with your wire .You have to go back and forth several
> times
> > till it is all straight and believe me its a time consuming
> process
> > and not 3 hrs for the complete ant.Dont get discouraged by this
> > posting I just want all homebrewers to know it all takes
> time .Good
> > Luck on building a good ant. Larry
> >
>

3030. Re: [hex-beam] Re: Hex Beam In 3 hrs?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-15 03:43:27 UTC
From: Hello
Topic: 3026 Message: 3030

monobander would be duck soup lol Larry
----- Original Message -----
From: Colin
To: hex-beam@yahoogroups.com
Sent: Tuesday, February 14, 2006 5:03 PM
Subject: [hex-beam] Re: Hex Beam In 3 hrs?

Hi Larry,
Once you have the experience of homebrewing a five band hex complete
with that associated 60 mile hike round and round the antenna :)

It should be possible to build a monobander from scratch in under 3
hours if you have all the tools and materials to hand.
For a 5 bander you would need at least a long weekend ;)

Colin 2E0XBM

--- In hex-beam@yahoogroups.com, "xalunt" <ag8o1@...> wrote:
>
> I Dont think so guys ,not if your going to homebrew one ..there is no
> way in hell your going to do this antenna in 3 hrs.Take your time
and
> have lots of paitents and when you come to the stringing of wire take
> good string and align all 6 noodles cuz thats what they are and run 3
> sets of string up the poles and a set across top to center post and
> one all around top and work with those till all poles are straight
> then work with your wire .You have to go back and forth several times
> till it is all straight and believe me its a time consuming process
> and not 3 hrs for the complete ant.Dont get discouraged by this
> posting I just want all homebrewers to know it all takes time .Good
> Luck on building a good ant. Larry
>

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[Non-text portions of this message have been removed]

3031. Re: [hex-beam] Masts and Guys

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-15 16:55:16 UTC
From: edward campbell
Topic: 2953 Message: 3031

Here is a thought..and you know what a thought made man do..LOL

I was thinking... is it possible to phase 2 beams at 40' then stacked at let's say at 90' for a total of 4 beams in play???

you would place 2 beams phased together a 40' on a tic ring then stacked at 90' on a ring. Both phased arrays able to rotate...

am thinking of things to better what I have for things to do as wx gets better..
ED NT4TT

Brings words and photos together (easily) with
PhotoMail - it's free and works with Yahoo! Mail.

[Non-text portions of this message have been removed]

3032. 6 Band Hex Beam - Wind Loading Study?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-15 20:36:45 UTC
From: Dave Willey
Topic: 3032 Message: 3032

I know the 6 band (6-20M) hex beam is lightweight, but has anyone done a model study on wind loading? (For myself I'm thinking of the telescoping 10' B'n'M "Black Widow" (BW4) poles & 16GA stranded flex wire.)

I bring this up as I'm looking for a small rotor to match a hex beam I'm currently building. The tower that I'm thinking of installing it on is a shared resource & the owner is pushing the limit with his commercial customers as it stands. He wants specifics for both the rotor and the antenna before he'll give me the O.K. to test install antenna/rotor/radio/computer it to see if it "plays nice" with everyone else that's at the site now..

Like I said.at the top, I wouldn't think it would be much. But he wants some sort of harder evidence beyond a "warm fuzzy guestamation" on my part.

Dave - N6DSW

[Non-text portions of this message have been removed]

3033. Excel v3+ mods?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-16 06:32:53 UTC
From: dave_kd6kwm
Topic: 3033 Message: 3033

Hi Holger,

I'm in process of building a homebrew 6 bander hex beam (6-20M).

I've dug around enough in the files/link sections to
have gathered up both your instructional .PDF off your webpage,
and d/l'ed v3 of your excellent spreadsheet off this list.

Being a big fan of Excel, I added several features
to your v3 spreadsheet, as well as having come up with some
other suggestion for newbies like me to tie the bits of web
information together into one resource package.

Can you email me off the list to discuss these add ons &
suggestions?

My e-mail address is good on QRZ.com.

Thanks,

Dave - N6DSW

3034. Re: [hex-beam] Thoughts on PVC as spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-16 12:16:23 UTC
From: Allen Clark
Topic: 3019 Message: 3034

make sure you by the gray electrical PVC BECAUSE IT IS UV PROJECT, I MADE MY FROM THIS and it's is holding up fine

73 W8ALC
ALLEN L CLARK

Hello <ag8o1@...> wrote:
Go with 3/4 pvc if anything and run ties on the ends and across and in the middle and you can get it nice and stright and pretty tight
----- Original Message -----
From: max_ve3tmt
To: hex-beam@yahoogroups.com
Sent: Monday, February 13, 2006 12:02 PM
Subject: [hex-beam] Thoughts on PVC as spreaders

The local Home Depot sells 10 foot lengths of 1/2" PVC conduit for
$3.49 each. It seems to flex pretty good and no doubt with the right
nylon reinforcing cord I would think it would hold fine. Any reasons
why not to use this material for spreaders? The length is ideal, I can
put 1/2" dowel inside for clamping to the hub. I have begun sourcing
parts for my first hex beam.

Max

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PhotoMail - it's free and works with Yahoo! Mail.

[Non-text portions of this message have been removed]

3035. Re: Thoughts on PVC as spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-16 15:29:29 UTC
From: max_ve3tmt
Topic: 3019 Message: 3035

--- In hex-beam@yahoogroups.com, Allen Clark <w8alc51ham@...> wrote:
>
> make sure you by the gray electrical PVC BECAUSE IT IS UV PROJECT, I MADE MY FROM THIS and it's is holding up fine

Thanks Allen,

Home Depot has the gray conduit. I think I will go that route and put dowel in the tube as suggested. It should be pretty hard to see against the sky as well. I was at Walmart last night and they have 10 1/2' crappie poles but at $67 each I think I will go the PVC route.

I have got lots of great advice from the group and cant wait to get started.

Max

3036. Hexbeam crappie poles for under $12

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-16 15:44:37 UTC
From: buysmart2002
Topic: 3019 Message: 3036

Max you can get great crappie poles which I am using for under $12 each here.

https://secure.redmagnet.com/bnmpoles/index.cfm?CFID=74635&CFTOKEN=15968983&SubCatID=14

Leo, k4kio

max_ve3tmt <max_ve3tmt@...> wrote: --- In hex-beam@yahoogroups.com, Allen Clark <w8alc51ham@...> wrote:
>
> make sure you by the gray electrical PVC BECAUSE IT IS UV PROJECT, I MADE MY FROM THIS and it's is holding up fine

Thanks Allen,

Home Depot has the gray conduit. I think I will go that route and put dowel in the tube as suggested. It should be pretty hard to see against the sky as well. I was at Walmart last night and they have 10 1/2' crappie poles but at $67 each I think I will go the PVC route.

I have got lots of great advice from the group and cant wait to get started.

Max

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[Non-text portions of this message have been removed]

3037. Re: 6 Band Hex Beam - Wind Loading Study?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-16 15:51:28 UTC
From: Colin
Topic: 3032 Message: 3037

Hi Dave,

I shouldn`t think it`ll be much over 2 - 2.5 sq ft, if that.

I use a old (ancient hi) medium duty emotator rotator on mine and
it`s more than powerful enough.
A channel master tv type rotator would probably cope well.

Colin 2E0XBM

--- In hex-beam@yahoogroups.com, Dave Willey <davewilley@...> wrote:
>
> I know the 6 band (6-20M) hex beam is lightweight, but has anyone
done
> a model study on wind loading? (For myself I'm thinking of the
telescoping
> 10' B'n'M "Black Widow" (BW4) poles & 16GA stranded flex wire.)
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> I bring this up as I'm looking for a small rotor to match a hex
beam I'm currently
> building. The tower that I'm thinking of installing it on is a
shared resource & the
> owner is pushing the limit with his commercial customers as it
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> specifics for both the rotor and the antenna before he'll give me
the O.K. to test
> install antenna/rotor/radio/computer it to see if it "plays nice"
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> that's at the site now..
>
> Like I said.at the top, I wouldn't think it would be much. But
he wants some
> sort of harder evidence beyond a "warm fuzzy guestamation" on my
part.
>
> Dave - N6DSW
>
>
>
>
> [Non-text portions of this message have been removed]
>

3038. Re: [hex-beam] Hexbeam crappie poles for under $12

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-16 16:20:20 UTC
From: Dave Willey
Topic: 3019 Message: 3038

Cabela's has the 13' model for US$11.83 each.
Plus no tax for Calif. residence. (YEAH!!)
Standard shipping.

http://www.cabelas.com

Search term: "B'n'M Black Widow".

Mine are due to be delivered the 21st.

(And the usual disclaimer here...)

Dave - N6DSW

buysmart2002 <buysmart2002@...> wrote: Max you can get great crappie poles which I am using for under $12 each here.

https://secure.redmagnet.com/bnmpoles/index.cfm?CFID=74635&CFTOKEN=15968983&SubCatID=14

Leo, k4kio

max_ve3tmt <max_ve3tmt@...> wrote: --- In hex-beam@yahoogroups.com, Allen Clark <w8alc51ham@...> wrote:
>
> make sure you by the gray electrical PVC BECAUSE IT IS UV PROJECT, I MADE MY FROM THIS and it's is holding up fine

Thanks Allen,

Home Depot has the gray conduit. I think I will go that route and put dowel in the tube as suggested. It should be pretty hard to see against the sky as well. I was at Walmart last night and they have 10 1/2' crappie poles but at $67 each I think I will go the PVC route.

I have got lots of great advice from the group and cant wait to get started.

Max

[Non-text portions of this message have been removed]

3039. Re: [hex-beam] Hexbeam crappie poles for under $12

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-16 16:30:39 UTC
From: Dave Willey
Topic: 3019 Message: 3039

Ha! I just checked Cabela's website again after I sent the previous post.
1 page says 11.83. Another page says $9.99.

I called Cabela's just now & it is indeed $9.99 each for the 13' model
Cabela's Item number: IG-110503..

Dave Willey <davewilley@...> wrote: Cabela's has the 13' model for US$11.83 each.
Plus no tax for Calif. residence. (YEAH!!)
Standard shipping.

http://www.cabelas.com

Search term: "B'n'M Black Widow".

Mine are due to be delivered the 21st.

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Dave - N6DSW

buysmart2002 <buysmart2002@...> wrote: Max you can get great crappie poles which I am using for under $12 each here.

https://secure.redmagnet.com/bnmpoles/index.cfm?CFID=74635&CFTOKEN=15968983&SubCatID=14

Leo, k4kio

[Non-text portions of this message have been removed]

3040. Re: Hexbeam crappie poles for under $12

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-16 16:37:51 UTC
From: Colin
Topic: 3019 Message: 3040

If you can find a local fishing tackle dealer on ebay,they usually have seconds (broken top eyelets,bottom bungs missing etc) which makes them non-saleable for fishing but still fine for hexbeam spreaders.

I bought a mixture of 6m and 8m rods for antenna experiments, 18 in total for £56 incl shipping.

Might be worth a try.

--- In hex-beam@yahoogroups.com, Dave Willey <davewilley@...> wrote:
>
> Cabela's has the 13' model for US$11.83 each.
> Plus no tax for Calif. residence. (YEAH!!)
> Standard shipping.
>
> http://www.cabelas.com
>
> Search term: "B'n'M Black Widow".
>
> Mine are due to be delivered the 21st.
>
> (And the usual disclaimer here...)
>
>
> Dave - N6DSW
>
> buysmart2002 <buysmart2002@...> wrote: Max you can get
great crappie poles which I am using for under $12 each here.
>
> https://secure.redmagnet.com/bnmpoles/index.cfm?
CFID=74635&CFTOKEN=15968983&SubCatID=14
>
> Leo, k4kio
>
> max_ve3tmt <max_ve3tmt@...> wrote: --- In hex-
beam@yahoogroups.com, Allen Clark <w8alc51ham@> wrote:
> >
> > make sure you by the gray electrical PVC BECAUSE IT IS UV
PROJECT, I
> MADE MY FROM THIS and it's is holding up fine
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> Thanks Allen,
>
> Home Depot has the gray conduit. I think I will go that route
and put

> dowel in the tube as suggested. It should be pretty hard to see
against
> the sky as well. I was at Walmart last night and they have 10
1/2'
> crappie poles but at $67 each I think I will go the PVC route.
>
> I have got lots of great advice from the group and cant wait to
get
> started.
>
> Max
>
>
>
>
> [Non-text portions of this message have been removed]
>

3041. Re: [hex-beam] Hexbeam crappie poles for under $12

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-16 20:56:34 UTC
From: John Lepire
Topic: 3019 Message: 3041

but wouldnt you want to use a very good pole instead of a crappy one ;-P hi
hi hi ;-D
----- Original Message -----
From: "buysmart2002" <buysmart2002@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, February 16, 2006 9:44 AM
Subject: [hex-beam] Hexbeam crappie poles for under $12

> Max you can get great crappie poles which I am using for under $12 each
here.
>
>
https://secure.redmagnet.com/bnmpoles/index.cfm?CFID=74635&CFTOKEN=15968983&SubCatID=14
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> Leo, k4kio
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> max_ve3tmt <max_ve3tmt@...> wrote: --- In
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> > make sure you by the gray electrical PVC BECAUSE IT IS UV PROJECT, I
> MADE MY FROM THIS and it's is holding up fine
>

3042. Re: [hex-beam] Re: 6 Band Hex Beam - Wind Loading Study?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-16 20:57:41 UTC
From: John Lepire
Topic: 3032 Message: 3042

i use an old alaiance u110 rotor on my mosley tri beam 30 lbs and it works
well so far
----- Original Message -----
From: "Colin" <djcol1@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, February 16, 2006 9:51 AM
Subject: [hex-beam] Re: 6 Band Hex Beam - Wind Loading Study?

> Hi Dave,
>
> I shouldn`t think it`ll be much over 2 - 2.5 sq ft, if that.
>
> I use a old (ancient hi) medium duty emotator rotator on mine and
> it`s more than powerful enough.
> A channel master tv type rotator would probably cope well.
>
> Colin 2E0XBM
>

3043. Re: [hex-beam] 6 Band Hex Beam - Wind Loading Study?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-17 02:21:44 UTC
From: buysmart2002
Topic: 3032 Message: 3043

Dave, why don't you use the figures for the Mike Traffie commercial version; I doubt there would be much difference.

73, Leo, k4kio

Dave Willey <davewilley@...> wrote: I know the 6 band (6-20M) hex beam is lightweight, but has anyone done
a model study on wind loading? (For myself I'm thinking of the telescoping
10' B'n'M "Black Widow" (BW4) poles & 16GA stranded flex wire.)

I bring this up as I'm looking for a small rotor to match a hex beam I'm currently building. The tower that I'm thinking of installing it on is a shared resource & the owner is pushing the limit with his commercial customers as it stands. He wants specifics for both the rotor and the antenna before he'll give me the O.K. to test install antenna/rotor/radio/computer it to see if it "plays nice" with everyone else that's at the site now..

Like I said.at the top, I wouldn't think it would be much. But he wants some sort of harder evidence beyond a "warm fuzzy guestamation" on my part.

Dave - N6DSW

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

3044. Re: 6 Band Hex Beam - Wind Loading Study?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-17 16:41:22 UTC
From: dl7io
Topic: 3032 Message: 3044

Hello Dave and folks,
let's see if we can bring some light into this.

The windload is described as F=q*a, where
F = windload in N
q = impact pressure in N/sqm or may dynamic pressure (not sure what the correct English vocabular is) and
a = antenna area in sqm

Of course you can use sqft instead of sqm.

The area of your antenna you have to find out yourself by calculating/measuring your own design. But please remember that there are 2 approaches.
No. 1 looking from top onto the antenna and use this seen area.
No. 2 looking from the side and use this seen area.
For our antenna usually the from the top seen area is bigger (baseplate, all spreaders and wires are seen from top).

If you use round materials (tubes) instead of square materials, you can use the factor 2/3 to reduce the area because the wind resistance of a tube element is of course smaller than for a square element.
I propose to leave this factor as a security factor and don't bring this into your calculation.

Regarding the impact pressure q we in Germany use following values.
(I'm pretty sure if we Germans accept those values you can use this for your case as well)

q = 800 N/Sqm for max. wind speed of about 120 km/h (to be used if antenna height is smaller than 20m)
q = 1100 N/sqm for 140 km/h (has to be used if antennas are 20m or higher)
q = 1600 N/sqm for 160 km/h (has to be used in high wind areas, like mountain or coast locations)

to change km to miles remember 1 mile= 1,6 km, e.g. 160 km/h = 100 miles/h

What you saw already is that doubling the wind speed means 4 times more windload for your infrastructure (tower & rotor).

73 Holger, DL7IO

> Dave Willey <davewilley@...> wrote: I know the 6 band (6-20M) hex beam is lightweight, but has anyone done
> a model study on wind loading? (For myself I'm thinking of the

telescoping
> 10' B'n'M "Black Widow" (BW4) poles & 16GA stranded flex
wire.)
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> I bring this up as I'm looking for a small rotor to match a hex
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> Dave - N6DSW
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>
> [Non-text portions of this message have been removed]
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>
> [Non-text portions of this message have been removed]
>

3045. Re: [hex-beam] Re: 6 Band Hex Beam - Wind Loading Study?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-18 01:56:07 UTC
From: Tom King
Topic: 3032 Message: 3045

You can go on Andrews web site and download there
Power tools software and let it calculate wind load
and just about anyothe parameter. I use this to help
engineer microwave sites. then I look for equivelents
and I use Pathloss for actual Path calc's. They have
some good free software.

--- dl7io <dl7io@...> wrote:

> Hello Dave and folks,
> let's see if we can bring some light into this.
>
> The windload is described as F=q*a, where
> F = windload in N
> q = impact pressure in N/sqm or may dynamic pressure
> (not sure what
> the correct English vocabular is) and
> a = antenna area in sqm
>
> Of course you can use sqft instead of sqm.
>
> The area of your antenna you have to find out
> yourself by
> calculating/measuring your own design. But please
> remember that there
> are 2 approaches.
> No. 1 looking from top onto the antenna and use this
> seen area.
> No. 2 looking from the side and use this seen area.
> For our antenna usually the from the top seen area
> is bigger
> (baseplate, all spreaders and wires are seen from
> top).
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> If you use round materials (tubes) instead of square
> materials, you
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> the wind resistance
> of a tube element is of course smaller than for a
> square element.
> I propose to leave this factor as a security factor
> and don't bring
> this into your calculation.
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> Regarding the impact pressure q we in Germany use

> following values.
> (I'm pretty sure if we Germans accept those values
> you can use this
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> wind areas, like
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> to change km to miles remember 1 mile= 1,6 km, e.g.
> 160 km/h = 100
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> > Dave Willey <davewilley@...> wrote: I
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> >
> > [Non-text portions of this message have been
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> > YAHOO! GROUPS LINKS
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> > [Non-text portions of this message have been
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3046. Re: [hex-beam] Re: Thoughts on PVC as spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-19 01:17:54 UTC
From: gerry nunan
Topic: 3019 Message: 3046

Max ...

hate to discourage you, but i tried both crappie poles and 3/4 inch PVC .... both were a dismal failure ... the crappie poles tapered too much and started to break before i got it up in the air ... went to 3/4 inch PVC and two things happened: 1) they sagged badly after about a month in the hot sun 2) the thing weighted 27 lbs when i got done .. (although it worked very well .... got thru Field Day with it) ... finally bought a 20 meter lightweight from Mike Traffie and it's great ... he has engineered around all the problems I had .. and the antenna weights 7 lbs (not 27 lbs) ..... it's a hot little pistol and i can turn it with an old AR-22 rotator ...

good luck .. regards ... Gerry ... K2HIT (ex, KE5DWM) .. near San Antonio, Texas

max_ve3tmt <max_ve3tmt@...> wrote:
--- In hex-beam@yahoogroups.com, Allen Clark <w8alc51ham@...> wrote:
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> make sure you by the gray electrical PVC BECAUSE IT IS UV PROJECT, I
MADE MY FROM THIS and it's is holding up fine

Thanks Allen,

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dowel in the tube as suggested. It should be pretty hard to see against
the sky as well. I was at Walmart last night and they have 10 1/2'
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[Non-text portions of this message have been removed]

3047. Crappie poles too thin?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-19 16:30:22 UTC
From: buysmart2002
Topic: 3019 Message: 3047

If you try to use a ten foot crappie pole for 20 meters, indeed, the last section is too thin. The key to using the crappie poles is to buy the 13 foot version but use only the first three sections. This way, the last section is 1/4 inch thick at the end and adequate for a six band hexbeam.

Seems to work great for me; I suspect the failures of others have been use of the smaller 10 foot pole which would give you an end section much too thin to do the job.

73,

Leo, k4kio

gerry nunan <ke5dwm@...> wrote: Max ...

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the sky as well. I was at Walmart last night and they have 10 1/2'
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I have got lots of great advice from the group and cant wait to get
started.

Max

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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

3048. Re: [hex-beam] Crappie poles too thin?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-19 17:03:43 UTC
From: Harold Burton
Topic: 3019 Message: 3048

When I used 3/8" by 48" fiberglass electric fence posts (round fiberglass rods) to build my 20 meter monoband Hexbeam I complained to W1GQL, Dave, (whose internet site I used for element dimensional info) that our local farm and ranch stores didn't stock larger sizes. Out of curiosity he checked his local Agway (think that's the name) and found that they stocked 1/2" by 72 inch posts.Using those would make for a slightly heavier antenna, but much, much stronger than any of the "drappie" poles or my smaller fiberglass posts. I only wish our "Orschelns" and "Tractor Supply" stores would stock the half inch by 6 foot posts. I was able to utilize the 4 foot 3/8" posts but it did require some ingenuity and a heavier "extended" hub.

Harold
KD5SAK

----- Original Message -----
From: "buysmart2002" <buysmart2002@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, February 19, 2006 10:30 AM
Subject: [hex-beam] Crappie poles too thin?

> If you try to use a ten foot crappie pole for 20 meters, indeed, the
> last section is too thin. The key to using the crappie poles is to buy
> the 13 foot version but use only the first three sections. This way,
> the last section is 1/4 inch thick at the end and adequate for a six
> band hexbeam.
>
> Seems to work great for me; I suspect the failures of others have
> been use of the smaller 10 foot pole which would give you an end
> section much too thin to do the job.
>
> 73,
>
> Leo, k4kio

3049. New email address

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-19 18:55:31 UTC
From: Bill Deloach
Topic: 3049 Message: 3049

Hi!!

My new email address is: k4wp@....

William or Bill DeLoach, whichever you prefer

[Non-text portions of this message have been removed]

3050. Re: [hex-beam] Crappie poles too thin?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-20 13:01:04 UTC
From: gerry nunan
Topic: 3019 Message: 3050

yes, that's exactly l what I did ...I used 10 crappie poles for a 20-meter antenna and they were too thin and broke.....

gerry ... K2HIG ... boerne, tx

buysmart2002 <buysmart2002@...> wrote:
If you try to use a ten foot crappie pole for 20 meters, indeed, the last section is too thin. The key to using the crappie poles is to buy the 13 foot version but use only the first three sections. This way, the last section is 1/4 inch thick at the end and adequate for a six band hexbeam.

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73,

Leo, k4kio

gerry nunan <ke5dwm@...> wrote: Max ...

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good luck .. regards ... Gerry ... K2HIT (ex, KE5DWM) .. near San Antonio, Texas

max_ve3tmt <max_ve3tmt@...> wrote:
--- In hex-beam@yahoogroups.com, Allen Clark <w8alc51ham@...> wrote:
>
> make sure you by the gray electrical PVC BECAUSE IT IS UV PROJECT, I
MADE MY FROM THIS and it's is holding up fine

Thanks Allen,

Home Depot has the gray conduit. I think I will go that route and put
dowel in the tube as suggested. It should be pretty hard to see against
the sky as well. I was at Walmart last night and they have 10 1/2'
crappie poles but at $67 each I think I will go the PVC route.

I have got lots of great advice from the group and cant wait to get
started.

Max

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[Non-text portions of this message have been removed]

3051. 80 meter monoband hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-22 22:39:53 UTC
From: Tom
Topic: 3051 Message: 3051

Has anyone ever tried this band and actually made one?
I dont see anything even in the formulas on this group for that band.
NB2A
Thanks Tom

3052. Re: [hex-beam] 80 meter monoband hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-23 05:26:31 UTC
From: Harold Burton
Topic: 3051 Message: 3052

----- Original Message -----
From: "Tom" <nb2a@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, February 22, 2006 4:39 PM
Subject: [hex-beam] 80 meter monoband hex

> Has anyone ever tried this band and actually made one?
> I dont see anything even in the formulas on this group for that band.
> NB2A
> Thanks Tom
>
>
Would probably have to be 80 feet in diameter, Might get a bit clumsy to
hang and rotate.
Mind you thats just a guess, I didn't try to work it out to find the
dimensions. My 20 meter monoband is 20 feet in diameter. I don't think
I've heard of anyone trying anything larger than 40 meters.

Harold
KD5SAK

3053. Re: [hex-beam] 80 meter monoband hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-23 06:39:55 UTC
From: Dave Willey
Topic: 3051 Message: 3053

Just for yucks, I used the spreadsheet that is in the file section in the Hex Beam discussion area..

I just scaled down the freq. & let Excel compute using the stock formulas. (Freq shown is the center portion of the US General phone band)

And the results are:

80 meters
Center freq: 3.925 Mhz
Driven Element Length: 131.21 feet
Reflector Length: 133.38 feet
Driven Element Spacing: 2.17 feet
Reflector Spacing: 1.38 feet
Over All Element Spacing: 3.08 feet
Spreader Length:32.80 feet

And for those folks who are REALLY reality challenged...

160 meters
Center freq:1.900 Mhz
Driven Element Length: 271.05 feet
Reflector Length: 275.53 feet
Driven Element Spacing: 4.47 feet
Reflector Spacing: 2.85 feet
Over All Element Spacing: 6.36 feet
Spreader Length: 67.76 feet

Of course your mileage may vary

Ya think B'n'M got crappie fishing poles that size?
(Don't forget that you'll need to order longer poles since you don't use the last 1/4 of the poles. They are too thin....)
(GRIN)

Dave - N6DSW
(Just because I could....)

Harold Burton <kd5sak@...> wrote:
----- Original Message -----
From: "Tom" <nb2a@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, February 22, 2006 4:39 PM
Subject: [hex-beam] 80 meter monoband hex

> Has anyone ever tried this band and actually made one?
> I dont see anything even in the formulas on this group for that band.
> NB2A
> Thanks Tom
>
>
Would probably have to be 80 feet in diameter, Might get a bit clumsy to hang and rotate.
Mind you thats just a guess, I didn't try to work it out to find the dimensions. My 20 meter monoband is 20 feet in diameter. I don't think I've heard of anyone trying anything larger than 40 meters.

Harold
KD5SAK

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[Non-text portions of this message have been removed]

3054. Re: [hex-beam] 80 meter monoband hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-23 07:11:35 UTC
From: John Lepire
Topic: 3051 Message: 3054

hey ive seen 80 meter beams lol ;-) monsters , the longest element on my mosley tribander is 29 ft . So 32 feet isnt that far off . god know what you'd use as a spreader though . i am thinking of a warc band hex ;-) that would be neat . i would think a fourty meter hex would be hard to do even . id like to see one . maybe you could find a tree sufficant enought for the stationary 160 hex lol ;-)
----- Original Message -----
From: "Dave Willey" <davewilley@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, February 23, 2006 12:39 AM
Subject: Re: [hex-beam] 80 meter monoband hex

> Just for yucks, I used the spreadsheet that is in the file section in the
> Hex Beam discussion area..
>
> I just scaled down the freq. & let Excel compute using the stock
> formulas. (Freq shown is the center portion of the US General
> phone band)
>
> And the results are:
>
> 80 meters
> Center freq: 3.925 Mhz
> Driven Element Length: 131.21 feet
> Reflector Length: 133.38 feet
> Driven Element Spacing: 2.17 feet
> Reflector Spacing: 1.38 feet
> Over All Element Spacing: 3.08 feet
> Spreader Length:32.80 feet
>
> And for those folks who are REALLY reality challenged...
>
> 160 meters
> Center freq:1.900 Mhz
> Driven Element Length: 271.05 feet
> Reflector Length: 275.53 feet
> Driven Element Spacing: 4.47 feet
> Reflector Spacing: 2.85 feet
> Over All Element Spacing: 6.36 feet
> Spreader Length: 67.76 feet
>
> Of course your mileage may vary
>
> Ya think B'n'M got crappie fishing poles that size?
> (Don't forget that you'll need to order longer poles since you

> don't use the last 1/4 of the poles. They are too thin....)
> (GRIN)
>
> Dave - N6DSW
> (Just because I could....)
>
> Harold Burton <kd5sak@...> wrote:
> ----- Original Message -----
> From: "Tom" <nb2a@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Wednesday, February 22, 2006 4:39 PM
> Subject: [hex-beam] 80 meter monoband hex
>
>
> > Has anyone ever tried this band and actually made one?
> > I dont see anything even in the formulas on this group for that band.
> > NB2A
> > Thanks Tom
> >
> >
> Would probably have to be 80 feet in diameter, Might get a bit clumsy to
> hang and rotate.
> Mind you thats just a guess, I didn't try to work it out to find the
> dimensions. My 20 meter monoband is 20 feet in diameter. I don't think
> I've heard of anyone trying anything larger than 40 meters.
>
> Harold
> KD5SAK
>
>
>
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> [Non-text portions of this message have been removed]
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3055. Re: 80 meter monoband hex

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-23 14:44:52 UTC
From: dl7io
Topic: 3051 Message: 3055

Hello Tom,
Don't use the formula out of the mentioned excel spreedsheet.
Nobody has calculated and built more mono- and multiband versions starting from 40m than I did and the formulas are not useful for the lower bands. But my calculations with EZNEC matched very good for all the different 40m versions. That's why I'm hopeful that the 80m dimensions are also correct or very close
Wire used for calculation is not insulated 1.5mm². The diameter is not critical. I would recommend to use bigger diameter to get better bandwith. If you go for insulated wire the elements will be shorter by 3-8% depending on the islotaion material and thickness.

If you will go for a 80m monoband version try the following dimensions:
radiator leg (half radiator): 22,00m
reflector leg (half reflector): 22,60m
tip space radiator side: 50cm
tip space reflector side: 42cm
spreader length needed is 12m.
1in=2.54cm

But remember that the antenna should be installed about 30-40m high. Otherwise you will have a very high TOA (to high for serious DXing) and a 1/4 wave vertical would be the better and cheaper choise.

73 Holger

PS. I have published monoband dimensions for 6-80m on the first sheet of the excel file I published to get the XYZ coordinates needed for any antenna calculation software out of changing tips or element dimensions of the folded hexbeam elements.

--- In hex-beam@yahoogroups.com, "Tom" <nb2a@...> wrote:
>
> Has anyone ever tried this band and actually made one?
> I dont see anything even in
the formulas on this group for that band.
> NB2A
> Thanks Tom
>

3056. Dimensions for 17 Meters

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-02-28 18:38:38 UTC
From: johncoralyn
Topic: 3056 Message: 3056

I have a home brew Hex up on 20 at 30 feet. The SWR is flat from 14.0 to 14.4 and resonate at 14.2 with SWR of 1.0 to 1. At ends it is 1.1 to 1. Using MFJ analizer. Have seen many differnet dimensions for 17. Would like to be resonate at 18.14. Suggestions on length of elements. Will be installed in Cambodia at 40 feet. KF0RQ/XU7ACQ

3057. Looking for a HX-5Bi Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-03 00:19:35 UTC
From: Dennis
Topic: 3057 Message: 3057

Looking to buy the 5 band hex bean by Traffie if somone wants to make a change. Have some things could trade including a Yaesu FT-100D and a Butternut HF-9V or will pay cash if trade not deisrable. Let me know what you have! Thanks

Dennis, W5UV

3058. 2M? Anyone?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-01 14:19:18 UTC
From: Roland Stolfa
Topic: 3058 Message: 3058

Hello,

I am a Novice/no-code (yet) ham working on my General at the moment. I'd love to have a much smaller 2M version of a hex beam (just to play around with). Can anybody direct me to where the dimensions for such an antenna might be found? Is there an Excel template for calculating the various dimensions, etc. out there?

Thanks in advance and '73s

Roland
KC5UNL

3059. Traffie HX-5Bi Hex Wanted

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-03 07:19:55 UTC
From: Dennis
Topic: 3059 Message: 3059

Looking for an HX-5Bi in good condition. Have some items to trade if interested (Yaesu FT-100D and Butternut HF-9V) but will pay cash if not interested in trading. Let me know what you got! Thanks

73, Dennis W5UV

3060. BREAM STIX BS16 for support?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-03 01:22:11 UTC
From: ion_moldovan
Topic: 3060 Message: 3060

I am looking to purchase these rods. Did anybody used this kind and can tell me if they will work?? I am planning to build the 5 band hex 10, 12, 15, 17 and 20. These rods are 16 ft long each and the price for 6 of them is about 50 bucks. I figured that if I get the 16 ft long ones i can chop them to the right length and be a little stronger than the 12ft long ones.
Thank you...

3061. 40 METER HEXBEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-06 00:07:27 UTC
From: ki4jwy
Topic: 3061 Message: 3061

Has anybody tried adding 40 meters to their exsisting 5 band hexbeam?
How long do the spreaders need to be for 40 meters?

John

3062. Re: [hex-beam] 40 METER HEXBEAM

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-06 00:30:15 UTC
From: Transpacific
Topic: 3061 Message: 3062

Joe Traffie said it's a huge antenna, but I'd be interested.

----- Original Message -----
From: ki4jwy
To: hex-beam@yahoogroups.com
Sent: Sunday, March 05, 2006 4:07 PM
Subject: [hex-beam] 40 METER HEXBEAM

Has anybody tried adding 40 meters to their exsisting 5 band hexbeam?
How long do the spreaders need to be for 40 meters?

John

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Version: 7.1.375 / Virus Database: 268.1.2/274 - Release Date: 3/3/2006

[Non-text portions of this message have been removed]

3063. Re: [hex-beam] 2M? Anyone?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-06 01:52:13 UTC
From: buysmart2002
Topic: 3058 Message: 3063

Roland, I haven't thought a lot about this but it strikes me that a 2 meter hexbeam wouldn't be such a hot idea. The main advantage of a hexbeam is getting a directional 2 element antenna that is physically small with reasonable performance.

At two meters, it would just about make more sense to me to just build a Yagi, 3 or 5 elements since it would still be small and give a lot better performance. But I am not an expert on two meters.

73,

Leo, K4KIO

Roland Stolfa <rstolfa@...> wrote: Hello,

I am a Novice/no-code (yet) ham working on my General at the moment.
I'd love to have a much smaller 2M version of a hex beam (just to play
around with). Can anybody direct me to where the dimensions for such
an antenna might be found? Is there an Excel template for calculating
the various dimensions, etc. out there?

Thanks in advance and '73s

Roland
KC5UNL

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3064. Re: [hex-beam] 2M? Anyone?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-06 02:32:02 UTC
From: Mike Van Winkle
Topic: 3058 Message: 3064

Just for fun , yes build away!...Honestly it would work fine but it would be much better as previously stated to simply build a yagi or quad for 2 meters or shorter wavelengths...The hex is a compromise affair that works fine..It is basically a way to get a low profile, small foorprint HF antenna..at a cheap cost(unless you buy it from traffie of course). If you want to build one six meters might be a better spot to experiment! It won't be a big antenna for at that frequency but you could learn the basics and have something useful to show for it!....W4HV

--- buysmart2002 <buysmart2002@...> wrote:

> Roland, I haven't thought a lot about this but it
> strikes me that a 2 meter hexbeam wouldn't be such
> a hot idea. The main advantage of a hexbeam is
> getting a directional 2 element antenna that is
> physically small with reasonable performance.
>
> At two meters, it would just about make more sense
> to me to just build a Yagi, 3 or 5 elements since
> it would still be small and give a lot better
> performance. But I am not an expert on two meters.
>
> 73,
>
> Leo, K4KIO
>
> Roland Stolfa <rstolfa@...> wrote:
> Hello,
>
> I am a Novice/no-code (yet) ham working on my
> General at the moment.
> I'd love to have a much smaller 2M version of a
> hex beam (just to play
> around with). Can anybody direct me to where the
> dimensions for such
> an antenna might be found? Is there an Excel
> template for calculating
> the various dimensions, etc. out there?
>
> Thanks in advance and '73s
>
> Roland

> KC5UNL
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3065. Hex-beam for 40m

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-06 06:23:13 UTC
From: Riaan Britz
Topic: 3065 Message: 3065

Hi all
I am in the process of building a 6-band hex-beam. With 40 m added the spreaders are about 6m long and the antenna is a bit bigger than the 5-band Hex-beam.

73`s

Riaan Britz
ZS1EMT

3066. Re: [hex-beam] 2M? Anyone?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-06 19:19:11 UTC
From: Tom King
Topic: 3058 Message: 3066

Try using an umbrella for a frame and that real thin
coax. It would be great for a handheld and easy to
fold up. PS probably have a hard time finding an
umbrella without metal soreaders.

Tom King
AC7WD

--- Mike Van Winkle <janmike2001@...> wrote:

> Just for fun , yes build away!...Honestly it would
> work fine but it would be much better as previously
> stated to simply build a yagi or quad for 2 meters
> or
> shorter wavelengths...The hex is a compromise affair
> that works fine..It is basically a way to get a low
> profile, small foorprint HF antenna..at a cheap
> cost(unless you buy it from traffie of course). If
> you
> want to build one six meters might be a better spot
> to
> experiment! It won't be a big antenna for at that
> frequency but you could learn the basics and have
> something useful to show for it!....W4HV
>
> --- buysmart2002 <buysmart2002@...> wrote:
>
> > Roland, I haven't thought a lot about this but it
> > strikes me that a 2 meter hexbeam wouldn't be
> such
> > a hot idea. The main advantage of a hexbeam is
> > getting a directional 2 element antenna that is
> > physically small with reasonable performance.
> >
> > At two meters, it would just about make more
> sense
> > to me to just build a Yagi, 3 or 5 elements since
> > it would still be small and give a lot better
> > performance. But I am not an expert on two meters.
> >
> > 73,
> >
> > Leo, K4KIO
> >
> > Roland Stolfa <rstolfa@...> wrote:
> > Hello,

> >
> > I am a Novice/no-code (yet) ham working on my
> > General at the moment.
> > I'd love to have a much smaller 2M version of a
> > hex beam (just to play
> > around with). Can anybody direct me to where
> the
> > dimensions for such
> > an antenna might be found? Is there an Excel
> > template for calculating
> > the various dimensions, etc. out there?
> >
> > Thanks in advance and '73s
> >
> > Roland
> > KC5UNL
> >
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> > ---
> > YAHOO! GROUPS LINKS
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> > Visit your group "hex-beam" on the web.
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> > ---
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> > [Non-text portions of this message have been
> > removed]
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>
> _____
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>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3067. Re: [hex-beam] Hex-beam for 40m

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-06 19:37:52 UTC
From: Transpacific
Topic: 3065 Message: 3067

Riann,
Can you please share all dimensions and a diagram if you have one?
How did you calculate the dimensions?
I'm very interested in a 40 meter version.

Tom

----- Original Message -----
From: Riaan Britz
To: hex-beam@yahoogroups.com
Sent: Sunday, March 05, 2006 10:23 PM
Subject: [hex-beam] Hex-beam for 40m

Hi all
I am in the process of building a 6-band hex-beam. With 40 m added the spreaders are about 6m long and the antenna is a bit bigger than the 5-band Hex-beam.

73`s

Riaan Britz
ZS1EMT

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Checked by AVG Free Edition.
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[Non-text portions of this message have been removed]

3068. Re: Hex-beam for 40m

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-06 21:51:11 UTC
From: max_ve3tmt
Topic: 3065 Message: 3068

--- In hex-beam@yahoogroups.com, Riaan Britz <zs1emt@...> wrote:
>
> Hi all
> I am in the process of building a 6-band hex-beam. With 40 m added the
> spreaders are about 6m long and the antenna is a bit bigger than the
> 5-band Hex-beam.
>
> 73`s
>
> Riaan Britz
> ZS1EMT
>

That would be about as wide as my house! The XYL would love it.

3069. Re: Hexbeam for 40m

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-07 08:40:08 UTC
From: dl7io
Topic: 3065 Message: 3069

Hello,
a couple of different 40m designs can be found on my webpage.
www.hexbeam.de
They come with EZNEC files and pdf's with results and dimensions.
I have built all of them already.
73 Holger

3070. Re: [hex-beam] Hex-beam for 40m

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-07 17:25:30 UTC
From: Riaan Britz
Topic: 3065 Message: 3070

Transpacific wrote:

>Riann,
>Can you please share all dimensions and a diagram if you have one?
>How did you calculate the dimensions?
>I'm very interested in a 40 meter version.
>
>Tom
>
> ----- Original Message -----
> From: Riaan Britz
> To: hex-beam@yahoogroups.com
> Sent: Sunday, March 05, 2006 10:23 PM
> Subject: [hex-beam] Hex-beam for 40m
>
>
> Hi all
> I am in the process of building a 6-band hex-beam. With 40 m added the
> spreaders are about 6m long and the antenna is a bit bigger than the
> 5-band Hex-beam.
>
> 73`s
>
> Riaan Britz
> ZS1EMT
>
>
>
>
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>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.375 / Virus Database: 268.2.0/275 - Release Date: 3/6/2006
>
>Tom, try the following site, www.hexbeam.de for details regarding the 40m Hex. Regards
Riaan
>
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>Yahoo! Groups Links
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3071. Does anyone actually have an HB mounted in their attic????

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-09 22:56:50 UTC
From: Johnne Ables
Topic: 3071 Message: 3071

Because of CCRs I am limited to an attic mounted antenna and a Force 12 Flagpole vertical with radials. My license expired 25 years ago and I am retaking the test within the next month or so. I always believed that if it sounds too good to be true it probably is. I like what I've heard about the HB, but I don't want to spend a Grand unless I can have some assurance of perfomance.

Anyone?

thanks,

Johnne

3072. Re: [hex-beam] Does anyone actually have an HB mounted in their attic????

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-09 23:37:07 UTC
From: Darren G0TSM
Topic: 3071 Message: 3072

I've got a 21+28MHz version in my attic, it's actually mounted upside down, it's a pair of mono banders using separate feed lines. I haven't ever worked/heard anyone on it as the noise from the computers, electrical appliances etc makes hearing anything impossible. I thought about covering the attic floor with aluminium foil but never got round to it. It was going to be part of my mini-contest station that i started to put together, the idea being that the Tx ants were down the garden 140ft away and the Rx ants were at the house, so in theory I could run SO2R or have a 2nd op in, quite a good idea at the time. The only other problem was that 20M wouldn't fit in the attic...

You could always completely cover the attic floor with copper mesh and then use 1/4-wave Ls or Ts for 10M~20M or maybe 30M. That would work, and would be cheaper :-)

Darren

At 22:56 09/03/2006, you wrote:
>Because of CCRs I am limited to an attic mounted antenna and a Force
>12 Flagpole vertical with radials. My license expired 25 years ago
>and I am retaking the test within the next month or so. I always
>believed that if it sounds too good to be true it probably is. I like
>what I've heard about the HB, but I don't want to spend a Grand unless
>I can have some assurance of perfomance.
>
>Anyone?
>
>thanks,
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>Johnne
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>----------
>YAHOO! GROUPS LINKS
>
> * Visit your group

> "<http://groups.yahoo.com/group/hex-beam>hex-beam" on the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubscribe>hex-beam-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
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>----------

3073. Re: [hex-beam] Does anyone actually have an HB mounted in their attic????

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-10 00:03:39 UTC
From: bur52@aol.com
Topic: 3071 Message: 3073

Welcome back to ham radio !

All I can say, is bang for the buck, the home brewed antennas all seem to be making contacts.
I have a Traffie, and it is great. I am sure I could do a little better with a full size beam. But I have no room. The hex has served ne very well on all 5 bands. It has broken many a 15 -17-20 meter pile up, with only 500 watts.
Very effective antenna...again for it's size. Not cheap, unless you home brew.
But is flat out works !!
73
JohnB

[Non-text portions of this message have been removed]

3074. Re: [hex-beam] Does anyone actually have an HB mounted in their attic????

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-09 23:31:18 UTC
From: Transpacific
Topic: 3071 Message: 3074

Call Mike Traffie and ask him.
----- Original Message -----
From: Johnne Ables
To: hex-beam@yahoogroups.com
Sent: Thursday, March 09, 2006 2:56 PM
Subject: [hex-beam] Does anyone actually have an HB mounted in their attic????

Because of CCRs I am limited to an attic mounted antenna and a Force 12 Flagpole vertical with radials. My license expired 25 years ago and I am retaking the test within the next month or so. I always believed that if it sounds too good to be true it probably is. I like what I've heard about the HB, but I don't want to spend a Grand unless I can have some assurance of perfomance.

Anyone?

thanks,

Johnne

YAHOO! GROUPS LINKS

a.. Visit your group "hex-beam" on the web.

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.375 / Virus Database: 268.2.1/278 - Release Date: 3/9/2006

[Non-text portions of this message have been removed]

3075. Re: [hex-beam] Does anyone actually have an HB mounted in their attic????

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-10 00:09:49 UTC
From: Harold Burton
Topic: 3071 Message: 3075

Actually, with a bit of research and some judicious shopping, you can build your own
for a mere fraction of what the commercially produced Hexbeam antenna will cost. I built a 20 meter monobander for under $60 using fiberglass electric fence posts, nylon cord and solid 14# copper wire (I utilized my scavenging skills to obtain free 5/8" thick HDPE plastic
for the hub and a 4 foot length of fiberglass thickwalled tubing for the central shaft.). The two links below will give you considerable do it yourself info on the Hexbeam. All the dimensional info I used in building my Hexbeam came from W1GQLs website. I helped another local Ham build one and then built my own.

http://midcoast.com/~w1gql/hex/buildyour.htm

http://www.dl7io.de/reflectedw/index.html

Harold
KD5SAK

----- Original Message -----
From: "Johnne Ables" <johnne507@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, March 09, 2006 4:56 PM
Subject: [hex-beam] Does anyone actually have an HB mounted in their attic????

> Because of CCRs I am limited to an attic mounted antenna and a Force
> 12 Flagpole vertical with radials. My license expired 25 years ago
> and I am retaking the test within the next month or so. I always
> believed that if it sounds too good to be true it probably is. I like
> what I've heard about the HB, but I don't want to spend a Grand unless
> I can have some assurance of perfomance.
>
> Anyone?
>
> thanks,
>
> Johnne
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> Yahoo! Groups Links
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> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.375 / Virus Database: 268.2.1/277 - Release Date:
> 3/8/2006
>
>

3076. Re: Does anyone actually have an HB mounted in their attic????

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-10 01:36:45 UTC
From: Johnne Ables
Topic: 3071 Message: 3076

Thanks to all who replied; I am encouraged and motivated to
carry-out several of your suggestions.

--- In hex-beam@yahoogroups.com, "Johnne Ables" <johnne507@...> wrote:
>
> Because of CCRs I am limited to an attic mounted antenna and a Force
> 12 Flagpole vertical with radials. My license expired 25 years ago
> and I am retaking the test within the next month or so. I always
> believed that if it sounds too good to be true it probably is. I
like
> what I've heard about the HB, but I don't want to spend a Grand
unless
> I can have some assurance of perfomance.
>
> Anyone?
>
> thanks,
>
> Johnne
>

3077. Re: [hex-beam] Re: Does anyone actually have an HB mounted in their attic????

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-10 01:43:22 UTC
From: Robert Hudnall
Topic: 3071 Message: 3077

Johnne,
I homebrew a hex beam for 20-17-15 meters. I work peter 1 island which is located 350 miles west of anarticia 2 weeks ago on 20 and 17 meters running 100 watts and it only took 5 calls to break the pile-up. No brag just fact as an actor use to say.

73 de K5RFI

Johnne Ables <johnne507@...> wrote:
Thanks to all who replied; I am encouraged and motivated to
carry-out several of your suggestions.

--- In hex-beam@yahoogroups.com, "Johnne Ables" <johnne507@...> wrote:
>
> Because of CCRs I am limited to an attic mounted antenna and a Force
> 12 Flagpole vertical with radials. My license expired 25 years ago
> and I am retaking the test within the next month or so. I always
> believed that if it sounds too good to be true it probably is. I
like
> what I've heard about the HB, but I don't want to spend a Grand
unless
> I can have some assurance of perfomance.
>
> Anyone?
>
> thanks,
>
> Johnne
>

YAHOO! GROUPS LINKS

Visit your group "hex-beam" on the web.

To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

3078. Re: [hex-beam] Re: Does anyone actually have an HB mounted in their attic????

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-10 06:31:55 UTC
From: Tom King
Topic: 3071 Message: 3078

In your attic you could string up some wire pionted in
a good direction and give it a shot without all the
hassles of rotater and spredders. make a few calls
and see if it would work.

AC7WD

--- Robert Hudnall <rhudnall7605@...> wrote:

> Johnne,
> I homebrew a hex beam for 20-17-15 meters. I work
> peter 1 island which is located 350 miles west of
> anarticia 2 weeks ago on 20 and 17 meters running
> 100 watts and it only took 5 calls to break the
> pile-up. No brag just fact as an actor use to say.
>
>
> 73 de K5RFI
>
> Johnne Ables <johnne507@...> wrote:
> Thanks to all who replied; I am encouraged and
> motivated to
> carry-out several of your suggestions.
>
> --- In hex-beam@yahoogroups.com, "Johnne Ables"
> <johnne507@...> wrote:
> >
> > Because of CCRs I am limited to an attic mounted
> antenna and a Force
> > 12 Flagpole vertical with radials. My license
> expired 25 years ago
> > and I am retaking the test within the next month
> or so. I always
> > believed that if it sounds too good to be true it
> probably is. I
> like
> > what I've heard about the HB, but I don't want to
> spend a Grand
> unless
> > I can have some assurance of perfomance.
> >
> > Anyone?
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> > thanks,

> >
> > Johnne
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> ---
> YAHOO! GROUPS LINKS
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>
> Visit your group "hex-beam" on the web.
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> To unsubscribe from this group, send an email
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> hex-beam-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the
> Yahoo! Terms of Service.
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> [Non-text portions of this message have been
> removed]
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Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3079. Re: Does anyone actually have an HB mounted in their attic????

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-10 14:27:02 UTC
From: t_ashland
Topic: 3071 Message: 3079

Harold,
I found some fiberglass poles at one of our local ag stores. Its a 5
foot pole 1/2" diameter for a little over $2.50. They are pretty
stiff. I would like to see or have you describe how you made adapters
to join two of these together. I looked in the photos section. I
seem to remember you describing it in a previous post, but I couldn't
find it.
73,
Terry, WK0F

--- In hex-beam@yahoogroups.com, "Harold Burton" <kd5sak@...> wrote:
>
> Actually, with a bit of research and some judicious shopping, you can
> build your own
> for a mere fraction of what the commercially produced Hexbeam antenna
> will cost. I built a 20 meter monobander for under $60 using fiberglass
> electric fence posts, nylon cord and solid 14# copper wire (I utilized
> my scavenging skills to obtain free 5/8" thick HDPE plastic
> for the hub and a 4 foot length of fiberglass thickwalled tubing for
the
> central shaft.). The two links below will give you considerable do it
> yourself info on the Hexbeam. All the dimensional info I used in
> building my Hexbeam came from W1GQLs website. I helped another local
Ham
> build one and then built my own.
>
> http://midcoast.com/~w1gql/hex/buildyour.htm
>
> http://www.dl7io.de/reflectedw/index.html
>
> Harold
> KD5SAK
>
>
>
>
> ----- Original Message -----
> From: "Johnne Ables" <johnne507@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Thursday, March 09, 2006 4:56 PM
> Subject: [hex-beam] Does anyone actually have an HB mounted in their
> attic????
>
>
> > Because of CCRs I am limited to an attic mounted antenna and a Force

> > 12 Flagpole vertical with radials. My license expired 25 years ago
> > and I am retaking the test within the next month or so. I always
> > believed that if it sounds too good to be true it probably is. I like
> > what I've heard about the HB, but I don't want to spend a Grand unless
> > I can have some assurance of perfomance.
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> > Anyone?
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> > thanks,
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> > Johnne
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> > Yahoo! Groups Links
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> > --
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.375 / Virus Database: 268.2.1/277 - Release Date:
> > 3/8/2006
> >
> >
>

3080. Re: [hex-beam] Re: Does anyone actually have an HB mounted in their attic????

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-10 15:50:14 UTC
From: Harold Burton
Topic: 3071 Message: 3080

Yessir! Sounds like you've found some good spreader material. I'd have loved to have been able to get the 1/2" by 5 foot posts you describe. Our local Southern Oklahoma farm/ranch stores only stock 3/8" by four foot posts. I made those work by being lucky, a local Ham gave me a fairly large piece of 5/8" thick HDPE (high density polyetheline) plastic sheet. I cut this into 1" wide strips 6" long, drilled lengthwise holes to fit my posts and assembled posts and plastic strips like Tinkertoys (only with glue). This, along with some creative hub work, allowed me to get the length I needed for my 20 meter monoband spreaders (roughly 10 feet). To do the same thing with your 1/2" posts you might need some 3/4" thick plastic sheet (HDPE, Acrylic, or Polycarbonate would probably work). By the way, I should warn that trying to drill strightthru holes in the plastic strips was not a simple task. You might also be able to achieve what ever length you need by simply overlapping the posts and clamping them with wormgear stainless steel hose clamps. With a one foot overlap between posts and four clamps you can probably assemble 3 posts into a spreader of up to approximately 13 foot length. This should give you as much length as neccessary, depending on the Hexbeam configuration you seek to build. I would have attempted to build mine in this manner had I been able to get the larger posts. Let me know if you wish me to try to directly send you photos of my Hexbeam and I'll give it a try. I don't want to attempt to send them thru the Yahoo Group because it might result in my electronic lynching.

Harold
KD5SAK

----- Original Message -----
From: "t_ashland" <t_ashland@...>
To: <hex-beam@yahoogroups.com>
Sent: Friday, March 10, 2006 8:27 AM
Subject: [hex-beam] Re: Does anyone actually have an HB mounted in their attic????

> Harold,
> I found some fiberglass poles at one of our local ag stores. Its a 5
> foot pole 1/2" diameter for a little over $2.50. They are pretty
> stiff. I would like to see or have you describe how you made adapters
> to join two of these together. I looked in the photos section. I
> seem to remember you describing it in a previous post, but I couldn't
> find it.
> 73,
> Terry, WK0F
>

> --- In hex-beam@yahoogroups.com, "Harold Burton" <kd5sak@...> wrote:

3081. Now fiberglass fence posts

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-10 19:12:44 UTC
From: t_ashland
Topic: 3071 Message: 3081

Harold,
I originally bought them to make a 6 meter hexbeam, but decided it's too stiff. I know I don't have to have the bow for a single band hex, but decided maybe I'll make a 2 element quad instead for 6 meters.
I have a lake home and would love to put a hex up there. I have a commercial hex (got a heck of a deal new from Burghardt's) at home, and would like to have a decent antenna at the lake home!
I think I exagerated the diameter. I laid a pole on a ruler, and it is probably closer to 3/8". Still plenty stiff though. Thanks for the ideas about a connector. I like the idea about the 1 foot overlap and SS hose clamps. Both give me food for thought. Keep the good ideas coming Harold!
73,
Terry, WK0F

--- In hex-beam@yahoogroups.com, "Harold Burton" <kd5sak@...> wrote:
>
> Yessir! Sounds like you've found some good spreader material. I'd have
> loved to have been able to get the 1/2" by 5 foot posts you describe.
> Our local Southern Oklahoma farm/ranch stores only stock 3/8" by four
> foot posts. I made those work by being lucky, a local Ham gave me a
> fairly large piece of 5/8" thick HDPE (high density polyetheline)
> plastic sheet. I cut this into 1" wide strips 6" long, drilled
> lengthwise holes to fit my posts and assembled posts and plastic strips
> like Tinkertoys (only with glue). This, along with some creative hub
> work, allowed me to get the length I needed for my 20 meter monoband
> spreaders (roughly 10 feet). To do the same thing with your 1/2" posts
> you might need some 3/4" thick plastic sheet (HDPE, Acrylic, or
> Polycarbonate would probably work). By the way, I should warn that
> trying to drill strightthru holes in the plastic strips was not a simple
> task. You might also be able to achieve what ever length you need by
> simply overlapping the posts and clamping them with wormgear stainless
> steel hose clamps. With a one foot overlap between posts and four clamps

> you can probably assemble 3 posts into a spreader of up to
approximately
> 13 foot length. This should give you as much length as neccessary,
> depending on the Hexbeam configuration you seek to build. I would
have
> attempted to build mine in this manner had I been able to get the
larger
> posts. Let me know if you wish me to try to directly send you
photos of
> my Hexbeam and I'll give it a try. I don't want to attempt to send
them
> thru the Yahoo Group because it might result in my electronic
lynching.
>
> Harold
> KD5SAK
>
>
> ----- Original Message -----
> From: "t_ashland" <t_ashland@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Friday, March 10, 2006 8:27 AM
> Subject: [hex-beam] Re: Does anyone actually have an HB mounted in
their
> attic????
>
>
> > Harold,
> > I found some fiberglass poles at one of our local ag stores. Its
a 5
> > foot pole 1/2" diameter for a little over $2.50. They are pretty
> > stiff. I would like to see or have you describe how you made
adapters
> > to join two of these together. I looked in the photos section. I
> > seem to remember you describing it in a previous post, but I
couldn't
> > find it.
> > 73,
> > Terry, WK0F
> >
> > --- In hex-beam@yahoogroups.com, "Harold Burton" <kd5sak@> wrote:
>

3082. Re: [hex-beam] Now fiberglass fence posts

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-10 19:34:09 UTC
From: Transpacific
Topic: 3071 Message: 3082

"I have a
commercial hex (got a heck of a deal new from Burghardt's)"

Did you buy a Hex Beam from Burghardt's? Please explain, I didn't think they sold Hex beams.

----- Original Message -----
From: t_ashland
To: hex-beam@yahoogroups.com
Sent: Friday, March 10, 2006 11:12 AM
Subject: [hex-beam] Now fiberglass fence posts

Harold,
I originally bought them to make a 6 meter hexbeam, but decided it's too stiff. I know I don't have to have the bow for a single band hex, but decided maybe I'll make a 2 element quad instead for 6 meters.
I have a lake home and would love to put a hex up there. I have a commercial hex (got a heck of a deal new from Burghardt's) at home, and would like to have a decent antenna at the lake home!
I think I exagerated the diameter. I laid a pole on a ruler, and it is probably closer to 3/8". Still plenty stiff though. Thanks for the ideas about a connector. I like the idea about the 1 foot overlap and SS hose clamps. Both give me food for thought. Keep the good ideas coming Harold!
73,
Terry, WK0F

--- In hex-beam@yahoogroups.com, "Harold Burton" <kd5sak@...> wrote:
>
> Yessir! Sounds like you've found some good spreader material. I'd have
> loved to have been able to get the 1/2" by 5 foot posts you describe.
> Our local Southern Oklahoma farm/ranch stores only stock 3/8" by four
> foot posts. I made those work by being lucky, a local Ham gave me a
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> plastic sheet. I cut this into 1" wide strips 6" long, drilled
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>
> Harold
> KD5SAK
>
>
> ----- Original Message -----
> From: "t_ashland" <t_ashland@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Friday, March 10, 2006 8:27 AM
> Subject: [hex-beam] Re: Does anyone actually have an HB mounted in
their
> attic????
>
>
> > Harold,
> > I found some fiberglass poles at one of our local ag stores. Its
a 5
> > foot pole 1/2" diameter for a little over $2.50. They are pretty
> > stiff. I would like to see or have you describe how you made
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> > to join two of these together. I looked in the photos section. I
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couldn't
> > find it.
> > 73,
> > Terry, WK0F

> >
> > --- In hex-beam@yahoogroups.com, "Harold Burton" <kd5sak@> wrote:
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Ferrite bead

YAHOO! GROUPS LINKS

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Checked by AVG Free Edition.
Version: 7.1.375 / Virus Database: 268.2.1/279 - Release Date: 3/10/2006

[Non-text portions of this message have been removed]

3083. Percent difference between dirven element and refector?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-10 20:42:06 UTC
From: johncoralyn
Topic: 3083 Message: 3083

I have seen figures from 1.3 % to 4 %. Which should I use for 17 meters.

3084. Re: Now fiberglass fence posts

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-10 22:09:27 UTC
From: t_ashland
Topic: 3071 Message: 3084

I bought it a few years ago. I think it was a demo. I'm sure they
don't carry them anymore. Mine is #250.

--- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@...> wrote:
>
> "I have a
> commercial hex (got a heck of a deal new from Burghardt's)"
>
> Did you buy a Hex Beam from Burghardt's? Please explain, I didn't
think they sold Hex beams.
>
> ----- Original Message -----
> From: t_ashland
> To: hex-beam@yahoogroups.com
> Sent: Friday, March 10, 2006 11:12 AM
> Subject: [hex-beam] Now fiberglass fence posts
>
>
> Harold,
> I originally bought them to make a 6 meter hexbeam, but decided it's
> too stiff. I know I don't have to have the bow for a single band
> hex, but decided maybe I'll make a 2 element quad instead for 6
> meters.
> I have a lake home and would love to put a hex up there. I have a
> commercial hex (got a heck of a deal new from Burghardt's) at home,
> and would like to have a decent antenna at the lake home!
> I think I exagerated the diameter. I laid a pole on a ruler, and it
> is probably closer to 3/8". Still plenty stiff though. Thanks for
> the ideas about a connector. I like the idea about the 1 foot
> overlap and SS hose clamps. Both give me food for thought. Keep the
> good ideas coming Harold!
> 73,
> Terry, WK0F
>
> --- In hex-beam@yahoogroups.com, "Harold Burton" <kd5sak@> wrote:
> >
> > Yessir! Sounds like you've found some good spreader material. I'd
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> > loved to have been able to get the 1/2" by 5 foot posts you
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> > Our local Southern Oklahoma farm/ranch stores only stock 3/8" by
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> > foot posts. I made those work by being lucky, a local Ham gave me a
> > fairly large piece of 5/8" thick HDPE (high density polyetheline)
> > plastic sheet. I cut this into 1" wide strips 6" long, drilled

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> > spreaders (roughly 10 feet). To do the same thing with your 1/2"
> posts
> > you might need some 3/4" thick plastic sheet (HDPE, Acrylic, or
> > Polycarbonate would probably work). By the way, I should warn that
> > trying to drill strightthru holes in the plastic strips was not a
> simple
> > task. You might also be able to achieve what ever length you need
> by
> > simply overlapping the posts and clamping them with wormgear
> stainless
> > steel hose clamps. With a one foot overlap between posts and four
> clamps
> > you can probably assemble 3 posts into a spreader of up to
> approximately
> > 13 foot length. This should give you as much length as neccessary,
> > depending on the Hexbeam configuration you seek to build. I would
> have
> > attempted to build mine in this manner had I been able to get the
> larger
> > posts. Let me know if you wish me to try to directly send you
> photos of
> > my Hexbeam and I'll give it a try. I don't want to attempt to send
> them
> > thru the Yahoo Group because it might result in my electronic
> lynching.
> >
> > Harold
> > KD5SAK
> >
> >
> > ----- Original Message -----
> > From: "t_ashland" <t_ashland@>
> > To: <hex-beam@yahoogroups.com>
> > Sent: Friday, March 10, 2006 8:27 AM
> > Subject: [hex-beam] Re: Does anyone actually have an HB mounted in
> their
> > attic????
> >
> >
> > > Harold,
> > > I found some fiberglass poles at one of our local ag stores. Its
> a 5
> > > foot pole 1/2" diameter for a little over $2.50. They are pretty
> > > stiff. I would like to see or have you describe how you made

> adapters
> > > to join two of these together. I looked in the photos section. I
> > > seem to remember you describing it in a previous post, but I
> couldn't
> > > find it.
> > > 73,
> > > Terry, WK0F
> > >
> > > --- In hex-beam@yahoogroups.com, "Harold Burton" <kd5sak@> wrote:
> >
>
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>
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>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Ferrite bead
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "hex-beam" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
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>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.375 / Virus Database: 268.2.1/279 - Release Date:
3/10/2006
>
>

> [Non-text portions of this message have been removed]
>

3085. Re: [hex-beam] Does anyone actually have an HB mounted in their attic????

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-11 02:24:36 UTC
From: Bill Tarkington
Topic: 3071 Message: 3085

Go to www.yahoogroups.com and join the HexBeam reflector group. You will not regret it and you will get all the afffirmation you desire on this outstanding antenna. The only thing better is the Fluidmotion SteppIr yagi beam, but it is much larger and cost a lot more. Have one. If not, It would be the hexbeam.

----- Original Message -----
From: "Johnne Ables" <johnne507@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, March 09, 2006 4:56 PM
Subject: [hex-beam] Does anyone actually have an HB mounted in their attic????

Because of CCRs I am limited to an attic mounted antenna and a Force 12 Flagpole vertical with radials. My license expired 25 years ago and I am retaking the test within the next month or so. I always believed that if it sounds too good to be true it probably is. I like what I've heard about the HB, but I don't want to spend a Grand unless I can have some assurance of perfomance.

Anyone?

thanks,

Johnne

Yahoo! Groups Links

3086. Re: [hex-beam] Does anyone actually have an HB mounted in their attic? ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-11 03:09:47 UTC
From: Duke - NA1A
Topic: 3086 Message: 3086

Dear OM,
The only comment I can tell you is from my own experience with the HexBeam. I had a 2 element Lightning Bolt antenna up at 45 ft on a crank up tower for 2.5 years. For the last year and a half, I've been using the Hexbeam by Traffie on the same tower and feedline as with the quad. I've found no difference b/w it the the Lightning Bolt in all aspect.
The only down side is that it is three times the cost of the Lightning Bolt, but the upside is that it has NO windload resistance, very easy to put together and practically maintenance free. On top of that, I'm using a Radio Shack rotor to turn the antenna and it works great! Sold the Ham IV that used to turn the quad.
Esthetically, it is not as obstrusive as the quad. The neighbors think that it is some sort of a satellite antenna. I tell them that it is a "Hi-Def" antenna for my big screen. It works...

73,
Duke - NA1A
Website: http://NA1A.US

-- "Bill Tarkington" <K3YC@...> wrote:
Go to www.yahoogroups.com and join the HexBeam reflector group. You will not regret it and you will get all the afffirmation you desire on this outstanding antenna. The only thing better is the Fluidmotion SteppIr yagi beam, but it is much larger and cost a lot more. Have one. If not, It would be the hexbeam.
----- Original Message -----
From: "Johnne Ables" <johnne507@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, March 09, 2006 4:56 PM
Subject: [hex-beam] Does anyone actually have an HB mounted in their attic????

Because of CCRs I am limited to an attic mounted antenna and a Force 12 Flagpole vertical with radials. My license expired 25 years ago and I am retaking the test within the next month or so. I always believed that if it sounds too good to be true it probably is. I like what I've heard about the HB, but I don't want to spend a Grand unless I can have some assurance of perfomance.

Anyone?

thanks,

Johnne

Yahoo! Groups Links

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[Non-text portions of this message have been removed]

3087. Re: Does anyone actually have an HB mounted in their attic? ???

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-12 17:00:57 UTC
From: Max
Topic: 3086 Message: 3087

Hi Def antenna? That's hilarious!!! I love it. -Max
--- In hex-beam@yahoogroups.com, "Duke - NA1A" <na1a@...> wrote:
>
> Dear OM,
> The only comment I can tell you is from my own experience with the
HexBeam. I had a 2 element Lightning Bolt antenna up at 45 ft on a
crank up tower for 2.5 years. For the last year and a half, I've
been using the Hexbeam by Traffie on the same tower and feedline as
with the quad. I've found no difference b/w it the the Lightning
Bolt in all aspect.
> The only down side is that it is three times the cost of the
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free. On top of that, I'm using a Radio Shack rotor to turn the
antenna and it works great! Sold the Ham IV that used to turn the
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> Esthetically, it is not as obstrusive as the quad. The neighbors
think that it is some sort of a satellite antenna. I tell them that
it is a "Hi-Def" antenna for my big screen. It works...
>
> 73,
> Duke - NA1A
> Website: http://NA1A.US
>
> -- "Bill Tarkington" <K3YC@...> wrote:
> Go to www.yahoogroups.com and join the HexBeam reflector group.
You will not
> regret it and you will get all the afffirmation you desire on this
> outstanding antenna. The only thing better is the Fluidmotion
SteppIr yagi
> beam, but it is much larger and cost a lot more. Have one. If not,
It would
> be the hexbeam.
> ----- Original Message -----
> From: "Johnne Ables" <johnne507@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Thursday, March 09, 2006 4:56 PM
> Subject: [hex-beam] Does anyone actually have an HB mounted in
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> attic????
>
>
> Because of CCRs I am limited to an attic mounted antenna and a
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> believed that if it sounds too good to be true it probably is. I
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> I can have some assurance of perfomance.
>
> Anyone?
>
> thanks,
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> Johnne
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>
> [Non-text portions of this message have been removed]
>

3088. SWR, gain and F/B ratio + hi. I'm new here!

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-14 23:55:50 UTC
From: Pete Millis
Topic: 3088 Message: 3088

Hi folks. I'm new here, and am in the middle of some experimentation. Currently using a vertical Moxon rectangle on the beach (see http://www.moxonantennaproject.com/m3kxz/M3KXZ_VERTICAL.htm) Another ham put into my head the idea of turning my Moxon into a diamond shape so I could use just one support pole. Fiddled with this in EZNEC for a while but it seemed to be lacking too much in gain and FB ratio compared with my Moxon. So I then started toying with the idea of the Hex Beam, but close to the beach (i.e. 1/2 metre above salt water ground) and in vertical orientation instead of horizontal. I've come up with a design that gives over 10dBi gain and over 32dB F/B ratio at 14.2 MHz which compares well with my Moxon (ez files available on request) but I have a question about the SWR and the change in gain and F/B across the band.
The question is this....
When I model the antenna, I get a much higher gain and F/B ratio at a frequency some 200 to 300kHz BELOW the point of SWR minimum. If I set the antenna up to obtain minimum SWR acorss the band then the gain drops by a couple of dBi and the F/B ratio becomes very poor. Is this something that is normally observed? With my Moxon, best performance is at a frequency higher than the SWR minimum frequency. I'm not bothered about SWR numbers as I believe they are generally pretty meaningless so long as they are under 3:1 and I'm happy to use a tuner anyway. Just curious that's all!

I'm building my hex Beam tomorrow and will post up some pictures in due course, along with a comparison with my Moxon.

72s, and thanks for the useful Yahoo group!

Pete Millis M3KXZ G-QRP 11767
Beach antenna experimenter!
Brighton UK

3089. Re: SWR, gain and F/B ratio + hi. I'm new here!

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-15 05:57:15 UTC
From: Colin
Topic: 3088 Message: 3089

Hi Pete,

I think the Moxon will result in higher F/B than the hexbeam (as that is the nature of the beast) but the single support for the hex with a few strategically placed guyes would likely be faster to set up on the beach.

A 40m version would also be much less unweildly than the equivilent moxon too, allowing you a bit more scope for beach experiments.

Models give a idea of what to expect but i wouldn`t rely on the data too much, it`s fair to say the f/b peaks don`t coincide with minimum swr or max gain.

In practice though the hex does perform surprisingly well given its compact size.

I`m looking forward to the results of your vertical hex-periments.

73 de Colin
2E0XBM

--- In hex-beam@yahoogroups.com, "Pete Millis" <p.millis@...> wrote:
>
> Hi folks. I'm new here, and am in the middle of some
experimentation.
> Currently using a vertical Moxon rectangle on the beach
> (see http://www.moxonantennaproject.com/m3kxz/M3KXZ_VERTICAL.htm)
> Another ham put into my head the idea of turning my Moxon into a
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> idea of the Hex Beam, but close to the beach (i.e. 1/2 metre above
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horizontal.
> I've come up with a design that gives over 10dBi gain and over 32dB
> F/B ratio at 14.2 MHz which compares well with my Moxon (ez files
> available on request) but I have a question about the SWR and the
> change in gain and F/B across the band.
> The question is this....
> When I model the antenna, I get a much higher gain and F/B ratio at
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> frequency some 200 to 300kHz BELOW the point of SWR minimum. If I
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> the antenna up to obtain minimum SWR acorss the band then the gain

> drops by a couple of dBi and the F/B ratio becomes very poor. Is
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>
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> due course, along with a comparison with my Moxon.
>
> 72s, and thanks for the useful Yahoo group!
>
> Pete Millis M3KXZ G-QRP 11767
> Beach antenna experimenter!
> Brighton UK
>

3090. Re: SWR, gain and F/B ratio + hi. I'm new here!

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-15 16:26:06 UTC
From: dl7io
Topic: 3088 Message: 3090

Hello Pete,
welcome to the group and nice to have someone else who is calculating antennas.

Your results are correct and match with mine.

Taking a given wire configuration you'll find the best gain below the area where you have a SWR of less than 1:2.
In the file of a presentation I held last year on a HAM meeting you can find a figure which shows on a 40m design the relation between gain, SWR and F/B in function of the frequency. This file is on the bottom of the data page.

The problem is, that in this area the SWR changes very much and needs to be tuned permanently like with a magnetic loop.
To get a useful optimum especially for singleband versions, I suggest to go for a 25 Ohm design like known from the reflected M or X-beam.
The frequency area where you can have a SWR of about 1:2 is about 150-200 kHz more down where the gain is better.

Make a quarter wave long stub of 37 Ohm coax (2 x 75 Ohm in parallel) to build a 1:2 unun and connect you 50 Ohm coax. Than you would not need a tuner. But the bandwith is a bit smaller than for the 50 Ohm design.

In practice it is hard to measure those values correctly. While measuring the SWR it is not rising that much as expected from the model. But if you try to have as less cable as possible you need to be in the antenna which will also influence the system. And measuring the gain is in my eyes almost impossible in the field. But you can comfirm the data for SWR and F/B which brings me to the conclusion if the theory is correct for this, than it should be as well for the gain.
You may compare the antennas trying to have similiar installations.

Nevertheless the difference in the gain is about 1-1.5 dB. And the question is: Is it worth to make this effort (stubs, matchboxes etc.)
One bad connection point or even many good ones (and you will have a few more if you use a stub/matchbox) may cost you much more gain.

In my eyes the possiblity of using the direct 50 Ohm feeding with a better bandwith has much more advantages than the effort of special feeding arrangements etc. This is mcuh more the case if you go for multiband designs.

Have success and keep is informed.
73 Holger

--- In hex-beam@yahoogroups.com, "Pete Millis" <p.millis@...> wrote:
>
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experimentation.
> Currently using a vertical Moxon rectangle on the beach
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> 72s, and thanks for the useful Yahoo group!
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> Pete Millis M3KXZ G-QRP 11767
> Beach antenna experimenter!
> Brighton UK
>

3091. Re: [hex-beam] Re: SWR, gain and F/B ratio + hi. I'm new here!

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-15 18:10:17 UTC
From: Mike Van Winkle
Topic: 3088 Message: 3091

Just a quik thought based on what you guys are saying back and forth ,Holger, Have you tried using a 50 to 75 ohm balun for the feedpoint transformation? Since basically we are using a multiband fan diople (with some bending) on the multiband versions of the hex. Since dipoles are inherently 75 ohm antennas, it would seem that this could account for the difference in resonance (of the antenna) and best match VS best performance...PEOPLE DON'T KNOW THAT DIPOLES PRESENT A 1.5 TO 1 SWR TO MODERN RADIOS AT RESONACE!!!!!...Just a thought to ponder...W4HV

--- dl7io <dl7io@...> wrote:

> Hello Pete,
> welcome to the group and nice to have someone else
> who is calculating
> antennas.
>
> Your results are correct and match with mine.
>
> Taking a given wire configuration you'll find the
> best gain below the
> area where you have a SWR of less than 1:2.
> In the file of a presentation I held last year on a
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> To get a useful optimum especially for singleband
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>
> Have success and keep is informed.
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> --- In hex-beam@yahoogroups.com, "Pete Millis"
> <p.millis@...> wrote:
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> > Brighton UK
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3092. What wire gage do I need??

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-18 15:04:28 UTC
From: ion_moldovan
Topic: 3092 Message: 3092

I am in the process of building the 5 band 10-20 hex beam. What gage wire can I use? According to the article it calls for 1,5 mm2 wire. What gage is that? My local store had 18 AWG bare copper wire, 7or 8 strand. Can I use that?. Thank you...

3093. Re: [hex-beam] What wire gage do I need??

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-19 01:30:39 UTC
From: buysmart2002
Topic: 3092 Message: 3093

By my calculations, 1.5mm2 is 38 mils and that is close to 18 gauge.

I am using 16 gauge wire but don't see any reason 18 gauge wouldn't work fine.

73,

Leo, k4kio

ion_moldovan <ion_moldovan@...> wrote: I am in the process of building the 5 band 10-20 hex beam. What gage
wire can I use? According to the article it calls for 1,5 mm2 wire.
What gage is that? My local store had 18 AWG bare copper wire, 7or 8
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[Non-text portions of this message have been removed]

3094. Re: [hex-beam] What wire gage do I need??

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-19 15:32:41 UTC
From: Robert Hudnall
Topic: 3092 Message: 3094

I have used Radio Shack Antenna wire on my hex-beam . It is a stranded wire and will bend very easily and is less expensive than the flex weave wire from Davis Products.

73 de K5RFI

buysmart2002 <buysmart2002@...> wrote:
By my calculations, 1.5mm2 is 38 mils and that is close to 18 gauge.

I am using 16 gauge wire but don't see any reason 18 gauge wouldn't work fine.

73,

Leo, k4kio

ion_moldovan <ion_moldovan@...> wrote: I am in the process of building the 5 band 10-20 hex beam. What gage
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What gage is that? My local store had 18 AWG bare copper wire, 7or 8
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[Non-text portions of this message have been removed]

3095. Re: What wire gage do I need??

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-20 12:01:29 UTC
From: dl7io
Topic: 3092 Message: 3095

Check out this page:
http://www.powerstream.com/Wire_Size.htm
It has a conversion table to the most common dimension.
A=1.5mm² is a diameter of 1.38mm.
73 Holger

> ion_moldovan <ion_moldovan@...> wrote: I am in the process
of building the 5 band 10-20 hex beam. What gage
> wire can I use? According to the article it calls for 1,5 mm2
wire.
> What gage is that? My local store had 18 AWG bare copper wire,
7or 8
> strand. Can I use that?. Thank you...
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>
> SPONSORED LINKS
> Ham
radio Craft
hobby Hobby and craft
supply
Ferrite
bead
>
> ---
> YAHOO! GROUPS LINKS
>
>
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>
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> ---
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>
> [Non-text portions of this message have been removed]
>
>
>
> SPONSORED LINKS
> Ham radio Craft hobby Hobby and craft supply
Ferrite bead
>
> ---
> YAHOO! GROUPS LINKS
>
>
> Visit your group "hex-beam" on the web.
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>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> ---
>
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>
>
> [Non-text portions of this message have been removed]
>

3096. Re: What wire gage do I need??

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-20 23:55:31 UTC
From: Mark
Topic: 3092 Message: 3096

I used 14 AWG (U.S. guage) wire. Considering the tension that the spreaders can put on the wire the heavier guages may be better.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@...> wrote:
>
> I am in the process of building the 5 band 10-20 hex beam. What gage
> wire can I use? According to the article it calls for 1,5 mm2 wire.
> What gage is that? My local store had 18 AWG bare copper wire, 7or 8
> strand. Can I use that?. Thank you...
>

3097. HexBeam HX5Bi For Sale on QTH.com

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-21 00:40:54 UTC
From: Duke - NA1A
Topic: 3097 Message: 3097

There's an HX5Bi just listed for sale on QTH.com. Ad #523031
73,
Duke - NA1A
Website: http://NA1A.US

[Non-text portions of this message have been removed]

3098. Re: [hex-beam] HexBeam HX5Bi For Sale on QTH.com

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-21 00:45:33 UTC
From: Transpacific
Topic: 3097 Message: 3098

Duke and others,
I'm thinking of getting a Hustler 4BTV for 40 meters.
Thedistance and height from my Hex Beam will be within 4 ft(I need to put it in that location).
Any comments of interference/problems between the two?

Tom WA7OB
----- Original Message -----
From: Duke - NA1A
To: hex-beam@yahoogroups.com
Sent: Monday, March 20, 2006 4:40 PM
Subject: [hex-beam] HexBeam HX5Bi For Sale on QTH.com

There's an HX5Bi just listed for sale on QTH.com. Ad #523031
73,
Duke - NA1A
Website: http://NA1A.US

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Ferrite bead

YAHOO! GROUPS LINKS

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b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

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No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.2.5/284 - Release Date: 3/17/2006

[Non-text portions of this message have been removed]

3099. Re: What wire gage do I need??

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-20 23:09:34 UTC
From: ion_moldovan
Topic: 3092 Message: 3099

I looked at thewireman website and I am thinking to order #541 wire. That is 14 AWG, 7 strand hard drawn copper. Is that OK?? At about 9 cents a foot, I think it's a pretty good deal.

--- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@...> wrote:
>
> I am in the process of building the 5 band 10-20 hex beam. What gage
> wire can I use? According to the article it calls for 1,5 mm2 wire.
> What gage is that? My local store had 18 AWG bare copper wire, 7or 8
> strand. Can I use that?. Thank you...
>

3100. Re: [hex-beam] Re: What wire gage do I need??

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-21 00:11:51 UTC
From: roncrowe
Topic: 3092 Message: 3100

Hi Mark,my antenna is the Traffie 5 band hex beam,not a home brew,it looks like #14 stranded drawn copper wire for the elements,hope this helps.....Ron
----- Original Message -----
From: Mark
To: hex-beam@yahoogroups.com
Sent: Monday, March 20, 2006 5:55 PM
Subject: [hex-beam] Re: What wire gage do I need??

I used 14 AWG (U.S. guage) wire. Considering the tension that the spreaders can put on the wire the heavier guages may be better.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@...>
wrote:
>
> I am in the process of building the 5 band 10-20 hex beam. What gage
> wire can I use? According to the article it calls for 1,5 mm2 wire.
> What gage is that? My local store had 18 AWG bare copper wire, 7or 8
> strand. Can I use that?. Thank you...
>

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[Non-text portions of this message have been removed]

3101. Re: [hex-beam] HexBeam HX5Bi For Sale on QTH.com

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-21 00:56:05 UTC
From: roncrowe
Topic: 3097 Message: 3101

I saw it,a good buy too.....Ron
----- Original Message -----
From: Duke - NA1A
To: hex-beam@yahoogroups.com
Sent: Monday, March 20, 2006 6:40 PM
Subject: [hex-beam] HexBeam HX5Bi For Sale on QTH.com

There's an HX5Bi just listed for sale on QTH.com. Ad #523031
73,
Duke - NA1A
Website: http://NA1A.US

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Ferrite bead

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b.. To unsubscribe from this group, send an email to:
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[Non-text portions of this message have been removed]

3102. Re: HexBeam HX5Bi For Sale on QTH.com

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-21 09:26:40 UTC
From: Dennis
Topic: 3097 Message: 3102

Sure am sorry I missed that. It's apparently sold as the ad is gone.
Any idea what the asking price was??? Timing is everything!!

73, Dennis W5UV

--- In hex-beam@yahoogroups.com, "Duke - NA1A" <na1a@...> wrote:
>
> There's an HX5Bi just listed for sale on QTH.com. Ad #523031
> 73,
> Duke - NA1A
> Website: http://NA1A.US
>
>
> [Non-text portions of this message have been removed]
>

3103. Re: [hex-beam] Re: HexBeam HX5Bi For Sale on QTH.com

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-21 16:11:52 UTC
From: mike hardy
Topic: 3097 Message: 3103

hi all,
where could i buy a comercial hex beam from ?
im in the uk ? not enough time in day to spend on radio
due to me been a house husband with twin 4 year old boys.
Mike Hardy
M0FCG - M1KEY - 2E0KEY
mob - 07791754432
email: m0fcg1@...

It is not the class of license the Amateur holds,
but the class of the Amateur that holds the license.

3104. Re: [hex-beam] Re: HexBeam HX5Bi For Sale on QTH.com

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-21 16:22:09 UTC
From: bur52@aol.com
Topic: 3097 Message: 3104

Hi
Try
www.hexbeam.com (http://www.hexbeam.com)

Tell Mr Traffie I said hello !!
73
KB3LXY
JohnB

[Non-text portions of this message have been removed]

3105. Re: HexBeam HX5Bi For Sale on QTH.com

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-21 17:53:40 UTC
From: dl7io
Topic: 3097 Message: 3105

Hello Mike,
you can get one from me.
73 Holger

--- In hex-beam@yahoogroups.com, "mike hardy" <m0fcg1@...> wrote:
>
> hi all,
> where could i buy a comercial hex beam from ?
> im in the uk ? not enough time in day to spend on radio
> due to me been a house husband with twin 4 year old boys.
> Mike Hardy
> M0FCG - M1KEY - 2E0KEY
> mob - 07791754432
> email: m0fcg1@...
>
> It is not the class of license the Amateur holds,
> but the class of the Amateur that holds the license.
>

3106. antennas in close proximity

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-21 22:26:18 UTC
From: Transpacific
Topic: 3106 Message: 3106

I need to mount a vertical for 40M about 2-3 ft away from my hex beam. Is this going to cause RFI or impair my signal with either antenna?

BTW, the vertical will be a Hustler4BTV, anyone have any experiences with this vertical.

Tom
WA7OB

[Non-text portions of this message have been removed]

3107. Re: [hex-beam] Re: HexBeam HX5Bi For Sale on QTH.com

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-21 23:24:09 UTC
From: richard
Topic: 3097 Message: 3107

Hi

I got mine from Holger DL7IO
I would have used Traffie but the import duty is 17%, from germany no import duty

M0CLZ Dick

.
----- Original Message -----
From: "mike hardy" <m0fcg1@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, March 21, 2006 4:11 PM
Subject: Re: [hex-beam] Re: HexBeam HX5Bi For Sale on QTH.com

> hi all,
> where could i buy a comercial hex beam from ?
> im in the uk ? not enough time in day to spend on radio
> due to me been a house husband with twin 4 year old boys.
> Mike Hardy
> M0FCG - M1KEY - 2E0KEY
> mob - 07791754432
> email: m0fcg1@...
>
> It is not the class of license the Amateur holds,
> but the class of the Amateur that holds the license.
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> Yahoo! Groups Links
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> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.385 / Virus Database: 268.2.6/286 - Release Date: 20/03/2006

>

3108. Re: [hex-beam] antennas in close proximity

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-22 00:48:01 UTC
From: bur52@aol.com
Topic: 3106 Message: 3108

I have a 75-40 meter dipole about 5 feet from my hex, and slightly below...no issues on either, that I can detect.

The only thing...I had a watt meter in line with one of my two stations. If I ran the oposite rig...it would move the watt meter on the other. I guess I was pumping some RF back down the other antenna's coax ? And this rig was off !
JohnB

[Non-text portions of this message have been removed]

3109. Re: [hex-beam] Re: HexBeam HX5Bi For Sale on QTH.com

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-22 01:30:58 UTC
From: mike hardy
Topic: 3097 Message: 3109

hi dick,
what sort of price would i be looking at then ?
with shipping ?

Mike Hardy
M0FCG - M1KEY - 2E0KEY
mob - 07791754432
email: m0fcg1@...

It is not the class of license the Amateur holds,
but the class of the Amateur that holds the license.

> Hi
>
> I got mine from Holger DL7IO
> I would have used Traffie but the import duty is 17%, from germany no
import
> duty
>
> M0CLZ Dick
>

3110. Re: HexBeam HX5Bi For Sale on QTH.com

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-22 11:32:09 UTC
From: dl7io
Topic: 3097 Message: 3110

Hello Mike,
If you are thinking about one of my beams, than we should discuss the
price ;-)
I doubt that Dick will sell his one.
73 Holger
PS. Check your e-mail you gave to Yahoo

--- In hex-beam@yahoogroups.com, "mike hardy" <m0fcg1@...> wrote:
>
> hi dick,
> what sort of price would i be looking at then ?
> with shipping ?
>
> Mike Hardy
> M0FCG - M1KEY - 2E0KEY
> mob - 07791754432
> email: m0fcg1@...
>
> It is not the class of license the Amateur holds,
> but the class of the Amateur that holds the license.
>
>
>
>
> > Hi
> >
> > I got mine from Holger DL7IO
> > I would have used Traffie but the import duty is 17%, from
germany no
> import
> > duty
> >
> > M0CLZ Dick
> >
>

3111. Re: [hex-beam] Re: HexBeam HX5Bi For Sale on QTH.com

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-22 11:42:33 UTC
From: richard
Topic: 3097 Message: 3111

Your right there Holger
My little baby is doing everything I expected plus more, it is staying here.

Dick M0CLZ

----- Original Message -----
From: "dl7io" <dl7io@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, March 22, 2006 11:32 AM
Subject: [hex-beam] Re: HexBeam HX5Bi For Sale on QTH.com

> Hello Mike,
> If you are thinking about one of my beams, than we should discuss the
> price ;-)
> I doubt that Dick will sell his one.
> 73 Holger
> PS. Check your e-mail you gave to Yahoo
>

3112. Re: antennas in close proximity

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-23 03:16:30 UTC
From: Garry
Topic: 3106 Message: 3112

Well I have the 5BTV which is basically the same antenna with the 80 meter add-on. Forget the 75-80 meter portion and you have a decent antenna that performs well on 40, 20, 15, 10. I have three ground radials for 80 and more for each of the higher frequencies. I regularly use mine on 40 with excellent results. It works far better then I anticipated a vertical would.

I do have problems with 15 when it rains -- swr climbs a fair amount. This phenomenon is not noticed on other bands,

What else would you like to know?

Garry Ve7ajj

--- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@...> wrote:
>
> I need to mount a vertical for 40M about 2-3 ft away from my hex beam. Is this going to cause RFI or impair my signal with either antenna?
>
> BTW, the vertical will be a Hustler4BTV, anyone have any experiences with this vertical.
>
>
> Tom
> WA7OB
>
> [Non-text portions of this message have been removed]
>

3113. Re: [hex-beam] Re: antennas in close proximity

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-23 16:51:07 UTC
From: Transpacific
Topic: 3106 Message: 3113

VE7AJJ,
Tnx. I will only use it on 40meters, as the hex beam is superb on the other bands.
How many 40m radials in what directions and length?
I'm resricted to only north and south directions .no east or west access.
Appreciate you comments and insights.

WA7OB
----- Original Message -----
From: Garry
To: hex-beam@yahoogroups.com
Sent: Wednesday, March 22, 2006 7:16 PM
Subject: [hex-beam] Re: antennas in close proximity

Well I have the 5BTV which is basically the same antenna with the 80
meter add-on. Forget the 75-80 meter portion and you have a decent
antenna that performs well on 40, 20, 15, 10. I have three ground
radials for 80 and more for each of the higher frequencies. I
regularly use mine on 40 with excellent results. It works far better
then I anticipated a vertical would.

I do have problems with 15 when it rains -- swr climbs a fair amount.
This phenomenon is not noticed on other bands,

What else would you like to know?

Garry Ve7ajj

--- In hex-beam@yahoogroups.com, "Transpacific"
<transpacific@...> wrote:
>
> I need to mount a vertical for 40M about 2-3 ft away from my hex
beam. Is this going to cause RFI or impair my signal with either
antenna?
>
> BTW, the vertical will be a Hustler4BTV, anyone have any experiences
with this vertical.
>
>
> Tom
> WA7OB
>
> [Non-text portions of this message have been removed]
>

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b.. To unsubscribe from this group, send an email to:
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c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.2.6/288 - Release Date: 3/22/2006

[Non-text portions of this message have been removed]

3114. Re: antennas in close proximity

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-23 19:15:13 UTC
From: Garry
Topic: 3106 Message: 3114

I have radials to the north east and south plus points in between. Can't remember just how many (12? - 20? something like that). No possibility of putting radials to the west. As well I have a mountain just to the west (I mean I am part ways up the mountain) so not good for propagation to the west. Good thing I am on Vancouver island, about as far west as a body can get. Hi. Like I said, at least for me, the hustler vertical works quite well on 40m. I seldom use more then 50 watts output. 73.

Had a homebrew hex for 10m, loved it, will be working on one for the other bands in the near future

Garry Ve7ajj

--- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@...> wrote:
>
> VE7AJJ,
> Tnx. I will only use it on 40meters, as the hex beam is superb on the other bands.
> How many 40m radials in what directions and length?
> I'm resricted to only north and south directions .no east or west access.
> Appreciate you comments and insights.
>
> WA7OB
> ----- Original Message -----
> From: Garry
> To: hex-beam@yahoogroups.com
> Sent: Wednesday, March 22, 2006 7:16 PM
> Subject: [hex-beam] Re: antennas in close proximity
>
>
> Well I have the 5BTV which is basically the same antenna with the 80
> meter add-on. Forget the 75-80 meter portion and you have a decent
> antenna that performs well on 40, 20, 15, 10. I have three ground
> radials for 80 and more for each of the higher frequencies. I
> regularly use mine on 40 with excellent results. It works far better
> then I anticipated a vertical would.
>
> I do have problems with 15 when it rains -- swr climbs a fair amount.
> This phenomenon is not noticed on other bands,

>
> What else would you like to know?
>
> Garry Ve7ajj
>
>
>
> --- In hex-beam@yahoogroups.com, "Transpacific"
> <transpacific@> wrote:
> >
> > I need to mount a vertical for 40M about 2-3 ft away from my hex
> beam. Is this going to cause RFI or impair my signal with either
> antenna?
> >
> > BTW, the vertical will be a Hustler4BTV, anyone have any
experiences
> with this vertical.
> >
> >
> > Tom
> > WA7OB
> >
> > [Non-text portions of this message have been removed]
> >
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> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "hex-beam" on the web.
>
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> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
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>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.385 / Virus Database: 268.2.6/288 - Release Date: 3/
22/2006
>
>
> [Non-text portions of this message have been removed]
>

3115. Re: [hex-beam] Re: antennas in close proximity

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-23 19:20:29 UTC
From: Transpacific
Topic: 3106 Message: 3115

are your radials for 40m 32' 4"?
----- Original Message -----
From: Garry
To: hex-beam@yahoogroups.com
Sent: Thursday, March 23, 2006 11:15 AM
Subject: [hex-beam] Re: antennas in close proximity

I have radials to the north east and south plus points in between. Can't remember just how many (12? - 20? something like that). No possibility of putting radials to the west. As well I have a mountain just to the west (I mean I am part ways up the mountain) so not good for propagation to the west. Good thing I am on Vancouver island, about as far west as a body can get. Hi. Like I said, at least for me, the hustler vertical works quite well on 40m. I seldom use more then 50 watts output. 73.

Had a homebrew hex for 10m, loved it, will be working on one for the other bands in the near future

Garry Ve7ajj

--- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@...> wrote:
>
> VE7AJJ,
> Tnx. I will only use it on 40meters, as the hex beam is superb on the other bands.
> How many 40m radials in what directions and length?
> I'm resricted to only north and south directions .no east or west access.
> Appreciate you comments and insights.
>
> WA7OB
> ----- Original Message -----
> From: Garry
> To: hex-beam@yahoogroups.com
> Sent: Wednesday, March 22, 2006 7:16 PM
> Subject: [hex-beam] Re: antennas in close proximity
>
>
> Well I have the 5BTV which is basically the same antenna with the 80
> meter add-on. Forget the 75-80 meter portion and you have a decent
> antenna that performs well on 40, 20, 15, 10. I have three ground
> radials for 80 and more for each of the higher frequencies. I

> regularly use mine on 40 with excellent results. It works far
better
> then I anticipated a vertical would.
>
> I do have problems with 15 when it rains -- swr climbs a fair
amount.
> This phenomenon is not noticed on other bands,
>
> What else would you like to know?
>
> Garry Ve7ajj
>
>
>
> --- In hex-beam@yahoogroups.com, "Transpacific"
> <transpacific@> wrote:
> >
> > I need to mount a vertical for 40M about 2-3 ft away from my hex
> beam. Is this going to cause RFI or impair my signal with either
> antenna?
> >
> > BTW, the vertical will be a Hustler4BTV, anyone have any
experiences
> with this vertical.
> >
> >
> > Tom
> > WA7OB
> >
> > [Non-text portions of this message have been removed]
> >
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>
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>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "hex-beam" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
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>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.385 / Virus Database: 268.2.6/288 - Release Date: 3/
22/2006
>
>
> [Non-text portions of this message have been removed]
>

YAHOO! GROUPS LINKS

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b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

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No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.0/290 - Release Date: 3/23/2006

[Non-text portions of this message have been removed]

3116. Re: antennas in close proximity

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-23 21:15:43 UTC
From: Garry
Topic: 3106 Message: 3116

That's it. Though for the first while I just had the 80 meter
radials and it still worked good with just them. Later I added the
others for the rest of the bands. My only complaint would be that 15
mtr coil. I took it apart but could not find the problem.

Garry Ve7ajj

--- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@...>
wrote:
>
> are your radials for 40m 32' 4"?
> ----- Original Message -----
> From: Garry
> To: hex-beam@yahoogroups.com
> Sent: Thursday, March 23, 2006 11:15 AM
> Subject: [hex-beam] Re: antennas in close proximity
>
>
> I have radials to the north east and south plus points in between.

> Can't remember just how many (12? - 20? something like that). No
> possibility of putting radials to the west. As well I have a
mountain
> just to the west (I mean I am part ways up the mountain) so not
good
> for propagation to the west. Good thing I am on Vancouver island,
> about as far west as a body can get. Hi. Like I said, at least
for
> me, the hustler vertical works quite well on 40m. I seldom use
more
> then 50 watts output. 73.
>
> Had a homebrew hex for 10m, loved it, will be working on one for
the
> other bands in the near future
>
> Garry Ve7ajj
>
> --- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@>
> wrote:
> >
> > VE7AJJ,
> > Tnx. I will only use it on 40meters, as the hex beam is superb
on
> the other bands.
> > How many 40m radials in what directions and length?

> > I'm resricted to only north and south directions .no east or
west
> access.
> > Appreciate you comments and insights.
> >
> > WA7OB
> > ----- Original Message -----
> > From: Garry
> > To: hex-beam@yahoogroups.com
> > Sent: Wednesday, March 22, 2006 7:16 PM
> > Subject: [hex-beam] Re: antennas in close proximity
> >
> >
> > Well I have the 5BTV which is basically the same antenna with
the
> 80
> > meter add-on. Forget the 75-80 meter portion and you have a
> decent
> > antenna that performs well on 40, 20, 15, 10. I have three
ground
> > radials for 80 and more for each of the higher frequencies. I
> > regularly use mine on 40 with excellent results. It works far
> better
> > then I anticipated a vertical would.
> >
> > I do have problems with 15 when it rains -- swr climbs a fair
> amount.
> > This phenomenon is not noticed on other bands,
> >
> > What else would you like to know?
> >
> > Garry Ve7ajj
> >
> >
> >
> > --- In hex-beam@yahoogroups.com, "Transpacific"
> > <transpacific@> wrote:
> > >
> > > I need to mount a vertical for 40M about 2-3 ft away from my
hex
> > beam. Is this going to cause RFI or impair my signal with
either
> > antenna?
> > >
> > > BTW, the vertical will be a Hustler4BTV, anyone have any
> experiences
> > with this vertical.
> > >
> > >
> > > Tom

> > > WA7OB
> > >
> > > [Non-text portions of this message have been removed]
> > >
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> > ----------

> ----------
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "hex-beam" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > hex-beam-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo!
Terms of
> Service.
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> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.385 / Virus Database: 268.2.6/288 - Release Date:
3/
> 22/2006
> >
> >
> > [Non-text portions of this message have been removed]
> >
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> ----------

> YAHOO! GROUPS LINKS
>
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>
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> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
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>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.385 / Virus Database: 268.3.0/290 - Release Date: 3/
23/2006
>
>
> [Non-text portions of this message have been removed]
>

3117. Re: [hex-beam] Re: antennas in close proximity

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-23 21:27:09 UTC
From: Transpacific
Topic: 3106 Message: 3117

ground mounted?
----- Original Message -----
From: Garry
To: hex-beam@yahoogroups.com
Sent: Thursday, March 23, 2006 1:15 PM
Subject: [hex-beam] Re: antennas in close proximity

That's it. Though for the first while I just had the 80 meter
radials and it still worked good with just them. Later I added the
others for the rest of the bands. My only complaint would be that 15
mtr coil. I took it apart but could not find the problem.

Garry Ve7ajj

--- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@...>
wrote:
>
> are your radials for 40m 32' 4"?
> ----- Original Message -----
> From: Garry
> To: hex-beam@yahoogroups.com
> Sent: Thursday, March 23, 2006 11:15 AM
> Subject: [hex-beam] Re: antennas in close proximity
>
>
> I have radials to the north east and south plus points in between.

> Can't remember just how many (12? - 20? something like that). No
> possibility of putting radials to the west. As well I have a
mountain
> just to the west (I mean I am part ways up the mountain) so not
good
> for propagation to the west. Good thing I am on Vancouver island,
> about as far west as a body can get. Hi. Like I said, at least
for
> me, the hustler vertical works quite well on 40m. I seldom use
more
> then 50 watts output. 73.
>
> Had a homebrew hex for 10m, loved it, will be working on one for
the
> other bands in the near future
>
> Garry Ve7ajj
>
> --- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@>

> wrote:
> >
> > VE7AJJ,
> > Tnx. I will only use it on 40meters, as the hex beam is superb
on
> the other bands.
> > How many 40m radials in what directions and length?
> > I'm resricted to only north and south directions .no east or
west
> access.
> > Appreciate you comments and insights.
> >
> > WA7OB
> > ----- Original Message -----
> > From: Garry
> > To: hex-beam@yahoogroups.com
> > Sent: Wednesday, March 22, 2006 7:16 PM
> > Subject: [hex-beam] Re: antennas in close proximity
> >
> >
> > Well I have the 5BTV which is basically the same antenna with
the
> 80
> > meter add-on. Forget the 75-80 meter portion and you have a
> decent
> > antenna that performs well on 40, 20, 15, 10. I have three
ground
> > radials for 80 and more for each of the higher frequencies. I
> > regularly use mine on 40 with excellent results. It works far
> better
> > then I anticipated a vertical would.
> >
> > I do have problems with 15 when it rains -- swr climbs a fair
> amount.
> > This phenomenon is not noticed on other bands,
> >
> > What else would you like to know?
> >
> > Garry Ve7ajj
> >
> >
> >
> > --- In hex-beam@yahoogroups.com, "Transpacific"
> > <transpacific@> wrote:
> > >
> > > I need to mount a vertical for 40M about 2-3 ft away from my
hex
> > beam. Is this going to cause RFI or impair my signal with
either
> > antenna?

> > >
> > > BTW, the vertical will be a Hustler4BTV, anyone have any
> experiences
> > with this vertical.
> > >
> > >
> > > Tom
> > > WA7OB
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
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> >
> >
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> >
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> > ----------

> ----------
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "hex-beam" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > hex-beam-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo!
Terms of
> Service.
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> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.385 / Virus Database: 268.2.6/288 - Release Date:
3/
> 22/2006

> >
> >
> > [Non-text portions of this message have been removed]
> >
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> YAHOO! GROUPS LINKS
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>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.385 / Virus Database: 268.3.0/290 - Release Date: 3/
23/2006
>
>
> [Non-text portions of this message have been removed]
>

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Ferrite bead

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No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.0/290 - Release Date: 3/23/2006

[Non-text portions of this message have been removed]

3118. HEX-BEAM 40 Meters over a 4 el SteppIR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-23 17:09:47 UTC
From: Clay K7HC
Topic: 3118 Message: 3118

I am thinking of putting a HEX-BEAM 40 meter mono above a 4 el Steppir. Has anyone had such an experience? Where ic the beat place to purchase a 40 HEX? Where can I get specs for such an animal? Thanks for any aid and encouragement?

3119. Re: [hex-beam] HEX-BEAM 40 Meters over a 4 el SteppIR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-25 08:40:45 UTC
From: Pieter & Petro du Toit
Topic: 3118 Message: 3119

Go to the web site of DL7IO (dl7io) you will find tue info their good lock 73 de zl1pdt nz
I'm not old only enjoying the traveling life !!
----- Original Message -----
From: Clay K7HC
To: hex-beam@yahoogroups.com
Sent: Friday, March 24, 2006 5:09 AM
Subject: [hex-beam] HEX-BEAM 40 Meters over a 4 el SteppIR

I am thinking of putting a HEX-BEAM 40 meter mono above a 4 el
Steppir. Has anyone had such an experience? Where ic the beat place
to purchase a 40 HEX? Where can I get specs for such an animal?
Thanks for any aid and encouragement?

YAHOO! GROUPS LINKS

a.. Visit your group "hex-beam" on the web.

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

3120. Re: [hex-beam] HEX-BEAM 40 Meters over a 4 el SteppIR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-25 16:50:12 UTC
From: Transpacific
Topic: 3118 Message: 3120

That would be awesome. But doesn't your 4 elelment Steppir (Monster) have 40meters?

----- Original Message -----
From: Pieter & Petro du Toit
To: hex-beam@yahoogroups.com
Sent: Saturday, March 25, 2006 12:40 AM
Subject: Re: [hex-beam] HEX-BEAM 40 Meters over a 4 el SteppIR

Go to the web site of DL7IO (dl7io) you will find tue info their good lock 73 de zl1pdt nz
I'm not old only enjoying the traveling life !!
----- Original Message -----
From: Clay K7HC
To: hex-beam@yahoogroups.com
Sent: Friday, March 24, 2006 5:09 AM
Subject: [hex-beam] HEX-BEAM 40 Meters over a 4 el SteppIR

I am thinking of putting a HEX-BEAM 40 meter mono above a 4 el
Steppir. Has anyone had such an experience? Where ic the beat place
to purchase a 40 HEX? Where can I get specs for such an animal?
Thanks for any aid and encouragement?

YAHOO! GROUPS LINKS

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b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "hex-beam" on the web.

b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.1/291 - Release Date: 3/24/2006

[Non-text portions of this message have been removed]

3121. Re: [hex-beam] HEX-BEAM 40 Meters over a 4 el SteppIR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-25 13:58:12 UTC
From: ChucKC6VCH@aol.com
Topic: 3118 Message: 3121

http://www.hexbeam.com/ (http://www.hexbeam.com/)

chuck kc6vch

[Non-text portions of this message have been removed]

3122. M0CLZ need your e-mail address

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-28 20:02:33 UTC
From: dl7io
Topic: 3122 Message: 3122

Hello Mike,
please check your e-mail account given here to the yahoo group. Mails cannot be delivered to you. So I cannot reach you.
Please use my mail given here or from my webpage.
73 Holger
www.dl7io.de

3123. Re: [hex-beam] M0CLZ need your e-mail address

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-28 20:27:27 UTC
From: Michael Doherty
Topic: 3122 Message: 3123

My email is rmdoherty@.... I tried to use the email address as
the yahoo user id, but it didn't let me. Sorry for any confusion.

73's Michael kd5wby

On 3/28/06, dl7io <dl7io@...> wrote:
> Hello Mike,
> please check your e-mail account given here to the yahoo group. Mails
> cannot be delivered to you. So I cannot reach you.
> Please use my mail given here or from my webpage.
> 73 Holger
> www.dl7io.de
>
>
>
>
>
> _____
> YAHOO! GROUPS LINKS
>
>
> Visit your group "hex-beam" on the web.
>
> To unsubscribe from this group, send an email to:
> hex-beam-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
> _____
>

3124. Re: M0CLZ need your e-mail address

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-29 06:32:22 UTC
From: dl7io
Topic: 3122 Message: 3124

Hello Mike,
you cannot use the @ sign in the mail address. Yahoo will cut off the
rest of the address.
Please come back to:
holger dot hannemann at hobi-tec dot de
I'm sure you know how to use this address.
Thank you in advance Holger

--- In hex-beam@yahoogroups.com, "Michael Doherty" <rmdoherty@...>
wrote:
>
> My email is rmdoherty@... I tried to use the email address as
> the yahoo user id, but it didn't let me. Sorry for any confusion.
>
> 73's Michael kd5wby
>
> On 3/28/06, dl7io <dl7io@...> wrote:
> > Hello Mike,
> > please check your e-mail account given here to the yahoo group.
Mails
> > cannot be delivered to you. So I cannot reach you.
> > Please use my mail given here or from my webpage.
> > 73 Holger
> > www.dl7io.de
> >
> >
> >
> >
> >
> > _____
> > YAHOO! GROUPS LINKS
> >
> >
> > Visit your group "hex-beam" on the web.
> >
> > To unsubscribe from this group, send an email to:
> > hex-beam-unsubscribe@yahoogroups.com
> >
> > Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
> >
> > _____
> >
>

3125. Ground Fault Device

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-29 13:41:50 UTC
From: dk.weiss
Topic: 3125 Message: 3125

On 20 meters
IC 735
Single Band HexBeam Home Brew
No Choke
SWR 1.2:1
Antenna about 15 Feet above and 10 feet laterally displacd
from circuit wiring.
Ground Fault Breaker is opening

Anyone have a solution for me?

Dave

3126. Re: Ground Fault Device

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-30 04:31:11 UTC
From: w4wb
Topic: 3125 Message: 3126

If it doesn't do it on say 17 or 15 m, then you likely need the RF
chock.
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "dk.weiss" <dk.weiss@...> wrote:
>
> On 20 meters
> IC 735
> Single Band HexBeam Home Brew
> No Choke
> SWR 1.2:1
> Antenna about 15 Feet above and 10 feet laterally displacd
> from circuit wiring.
> Ground Fault Breaker is opening
>
> Anyone have a solution for me?
>
> Dave
>

3127. Re: [hex-beam] Re: Ground Fault Device

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-30 11:47:24 UTC
From: Mike Van Winkle
Topic: 3125 Message: 3127

Your rf field may trip it still if the field intensity is high enough...I would reccomend a basic choke balun...Just wrap the center pole with 10 turns or more of you coax ...turns should touch each other. In your situation the wiring likely could pass in the wall even closer than you state the gfi location...In that case some 500v .001uf poly style caps on the ac hot and neutral to ground might help. This will not affect gfi operation...Otherwise moving the antenna so that you wiring is out of the near field wolld be the only solution....(or you could violate code and change to a regular outlet) I am assuming its a gfi outlet not a main breaker..W4HV

--- w4wb <w4wb@...> wrote:

> If it doesn't do it on say 17 or 15 m, then you
> likely need the RF
> chock.
> 73,
> Barry W4WB
>
>
> --- In hex-beam@yahoogroups.com, "dk.weiss"
> <dk.weiss@...> wrote:
> >
> > On 20 meters
> > IC 735
> > Single Band HexBeam Home Brew
> > No Choke
> > SWR 1.2:1
> > Antenna about 15 Feet above and 10 feet laterally
> displacd
> > from circuit wiring.
> > Ground Fault Breaker is opening
> >
> > Anyone have a solution for me?
> >
> > Dave
> >
>
>
>
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>

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Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3128. Re: [hex-beam] Ground Fault Device

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-30 16:25:10 UTC
From: Tom King
Topic: 3125 Message: 3128

Ground the outer shield on the coax and run the balun.
this should keep the rf at the antenna and not radiate
from the coax.

AC7WD
Tom

--- "dk.weiss" <dk.weiss@...> wrote:

> On 20 meters
> IC 735
> Single Band HexBeam Home Brew
> No Choke
> SWR 1.2:1
> Antenna about 15 Feet above and 10 feet laterally
> displacd
> from circuit wiring.
> Ground Fault Breaker is opening
>
> Anyone have a solution for me?
>
> Dave
>
>
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>
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>
>

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http://mail.yahoo.com

3129. RE: [hex-beam] Re: Ground Fault Device

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-30 17:30:23 UTC
From: David K. Weiss
Topic: 3125 Message: 3129

RF Chock??

thanks for the reply, please clarify
Dave
W3DKW

-----Original Message-----
From: hex-beam@yahoogroups.com
[mailto:hex-beam@yahoogroups.com] On Behalf Of w4wb
Sent: Wednesday, March 29, 2006 11:31 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Ground Fault Device

If it doesn't do it on say 17 or 15 m, then you likely need
the RF
chock.
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "dk.weiss" <dk.weiss@...>
wrote:
>
> On 20 meters
> IC 735
> Single Band HexBeam Home Brew
> No Choke
> SWR 1.2:1
> Antenna about 15 Feet above and 10 feet laterally displacd
> from circuit wiring.
> Ground Fault Breaker is opening
>
> Anyone have a solution for me?
>
> Dave
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&
w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4
&s=78&.sig=nophR1-h7ShXYe5gy8M6WQ> radio Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radi
o&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c
=4&s=78&.sig=635Q0aH_KfGQMHA8eL0aLw> hobby Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&
w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Fer

rite+bead&c=4&s=78&.sig=FnsugybLK5zQ_ysmpJeBKQ> and craft
supply
Ferrite
<http://groups.yahoo.com/gads?t=ms&k=Ferrite+bead&w1=Ham+rad
io&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&
c=4&s=78&.sig=RII4nPQG0W5fxnRTgzD_lg> bead

YAHOO! GROUPS LINKS

* Visit your group "hex-beam
<http://groups.yahoo.com/group/hex-beam> " on the web.

* To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com
<mailto:hex-beam-unsubscribe@yahoogroups.com?subject=Unsubsc
ribe>

* Your use of Yahoo! Groups is subject to the Yahoo!
Terms of Service <http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

3130. RE: [hex-beam] Re: Ground Fault Device

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-30 17:35:04 UTC
From: David K. Weiss
Topic: 3125 Message: 3130

Thanks for the detail,
actually the breaker is opening.
I'll get to work on grounding first, then go for the choke.
10 turns on 1.5" pipe you say??

Dave
W3DKW

-----Original Message-----
From: hex-beam@yahoogroups.com
[mailto:hex-beam@yahoogroups.com] On Behalf Of Mike Van
Winkle
Sent: Thursday, March 30, 2006 6:47 AM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] Re: Ground Fault Device

Your rf field may trip it still if the field intensity
is high enough...I would reccomend a basic choke
balun...Just wrap the center pole with 10 turns or
more of you coax ...turns should touch each other. In
your situation the wiring likely could pass in the
wall even closer than you state the gfi location...In
that case some 500v .001uf poly style caps on the ac
hot and neutral to ground might help. This will not
affect gfi operation...Otherwise moving the antenna so
that you wiring is out of the near field wolld be the
only solution....(or you could violate code and change
to a regular outlet) I am assuming its a gfi outlet
not a main breaker..W4HV

--- w4wb <w4wb@...> wrote:

> If it doesn't do it on say 17 or 15 m, then you
> likely need the RF
> chock.
> 73,
> Barry W4WB
>
>
> --- In hex-beam@yahoogroups.com, "dk.weiss"
> <dk.weiss@...> wrote:
> >
> > On 20 meters
> > IC 735
> > Single Band HexBeam Home Brew
> > No Choke

> > SWR 1.2:1
> > Antenna about 15 Feet above and 10 feet laterally
> displacd
> > from circuit wiring.
> > Ground Fault Breaker is opening
> >
> > Anyone have a solution for me?
> >
> > Dave
> >
>
>
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>
>

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w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4
&s=78&.sig=nophR1-h7ShXYe5gy8M6WQ> radio Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radi
o&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c
=4&s=78&.sig=635Q0aH_KfGQMHA8eL0aLw> hobby Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&
w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Fer
rite+bead&c=4&s=78&.sig=FnsugybLK5zQ_ysmpJeBKQ> and craft
supply
Ferrite
<http://groups.yahoo.com/gads?t=ms&k=Ferrite+bead&w1=Ham+rad
io&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&
c=4&s=78&.sig=RII4nPQG0W5fxnRTgzD_lg> bead

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ribe>

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[Non-text portions of this message have been removed]

3131. RE: [hex-beam] Ground Fault Device

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-30 17:35:56 UTC
From: David K. Weiss
Topic: 3125 Message: 3131

Thanks Tom
Appreciate your reply.
Going to work on grounding
Dave
W3DKW

-----Original Message-----
From: hex-beam@yahoogroups.com
[mailto:hex-beam@yahoogroups.com] On Behalf Of Tom King
Sent: Thursday, March 30, 2006 11:25 AM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] Ground Fault Device

Ground the outer shield on the coax and run the balun.
this should keep the rf at the antenna and not radiate
from the coax.

AC7WD
Tom

--- "dk.weiss" <dk.weiss@...> wrote:

> On 20 meters
> IC 735
> Single Band HexBeam Home Brew
> No Choke
> SWR 1.2:1
> Antenna about 15 Feet above and 10 feet laterally
> displacd
> from circuit wiring.
> Ground Fault Breaker is opening
>
> Anyone have a solution for me?
>
> Dave
>
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ribe>

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[Non-text portions of this message have been removed]

3132. RE: [hex-beam] Ground Fault Device

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-30 18:02:11 UTC
From: Tom King
Topic: 3125 Message: 3132

Be careful not to penetrate the shield. Another way is
to buy a lightning arrestor and use it. Ground should
be separate from the house ground system. Drive your
self a couple of ground rods. these are typically 8
feet long then attach the ground wire. the tower or
pushup pole should also be grounded. I work in the
wireless industry and we ground everything. including
the fence. that is a commercial application.
Tom
AC7WD

--- "David K. Weiss" <dk.weiss@...> wrote:

> Thanks Tom
> Appreciate your reply.
> Going to work on grounding
> Dave
> W3DKW
>
> -----Original Message-----
> From: hex-beam@yahoogroups.com
> [mailto:hex-beam@yahoogroups.com] On Behalf Of Tom
> King
> Sent: Thursday, March 30, 2006 11:25 AM
> To: hex-beam@yahoogroups.com
> Subject: Re: [hex-beam] Ground Fault Device
>
>
> Ground the outer shield on the coax and run the
> balun.
> this should keep the rf at the antenna and not
> radiate
> from the coax.
>
> AC7WD
> Tom
>
> --- "dk.weiss" <dk.weiss@...> wrote:
>
> > On 20 meters
> > IC 735
> > Single Band HexBeam Home Brew
> > No Choke
> > SWR 1.2:1
> > Antenna about 15 Feet above and 10 feet laterally

> > displacd
> > from circuit wiring.
> > Ground Fault Breaker is opening
> >
> > Anyone have a solution for me?
> >
> > Dave
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>
> [Non-text portions of this message have been
> removed]
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3133. RE: [hex-beam] Re: Ground Fault Device

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-31 00:19:40 UTC
From: Mike Van Winkle
Topic: 3125 Message: 3133

yes 10 turns will do the job very nicely..Grounding
the rig might help also...Mike W4HV

--- "David K. Weiss" <dk.weiss@...> wrote:

> Thanks for the detail,
> actually the breaker is opening.
> I'll get to work on grounding first, then go for the
> choke.
> 10 turns on 1.5" pipe you say??
>
> Dave
> W3DKW
>
> -----Original Message-----
> From: hex-beam@yahoogroups.com
> [mailto:hex-beam@yahoogroups.com] On Behalf Of Mike
> Van
> Winkle
> Sent: Thursday, March 30, 2006 6:47 AM
> To: hex-beam@yahoogroups.com
> Subject: Re: [hex-beam] Re: Ground Fault Device
>
>
> Your rf field may trip it still if the field
> intensity
> is high enough...I would reccomend a basic choke
> balun...Just wrap the center pole with 10 turns or
> more of you coax ...turns should touch each other.
> In
> your situation the wiring likely could pass in the
> wall even closer than you state the gfi
> location...In
> that case some 500v .001uf poly style caps on the ac
> hot and neutral to ground might help. This will not
> affect gfi operation...Otherwise moving the antenna
> so
> that you wiring is out of the near field wolld be
> the
> only solution....(or you could violate code and
> change
> to a regular outlet) I am assuming its a gfi outlet
> not a main breaker..W4HV
>
> --- w4wb <w4wb@...> wrote:

>
> > If it doesn't do it on say 17 or 15 m, then you
> > likely need the RF
> > chock.
> > 73,
> > Barry W4WB
> >
> >
> > --- In hex-beam@yahoogroups.com, "dk.weiss"
> > <dk.weiss@...> wrote:
> > >
> > > On 20 meters
> > > IC 735
> > > Single Band HexBeam Home Brew
> > > No Choke
> > > SWR 1.2:1
> > > Antenna about 15 Feet above and 10 feet
> laterally
> > displacd
> > > from circuit wiring.
> > > Ground Fault Breaker is opening
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> > > Anyone have a solution for me?
> > >
> > > Dave
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w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4
> &s=78&.sig=nophR1-h7ShXYe5gy8M6WQ> radio Craft
>

<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radi
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<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&
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> craft
> supply
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> c=4&s=78&.sig=RII4nPQG0W5fxnRTgzD_lg> bead
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>
> * Visit your group "hex-beam
> <http://groups.yahoo.com/group/hex-beam> " on the
> web.
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> [Non-text portions of this message have been
> removed]
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3134. Re: Ground Fault Device

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-30 04:44:24 UTC
From: Clay K7HC
Topic: 3125 Message: 3134

You've already stated it's a single band 20 meter HEX, but a choke is always advisable. What I'm not clear on is just what ground fault breaker is opening, and where is this breaker in your circuit?

--- In hex-beam@yahoogroups.com, "dk.weiss" <dk.weiss@...> wrote:
>
> On 20 meters
> IC 735
> Single Band HexBeam Home Brew
> No Choke
> SWR 1.2:1
> Antenna about 15 Feet above and 10 feet laterally displacd
> from circuit wiring.
> Ground Fault Breaker is opening
>
> Anyone have a solution for me?
>
> Dave
>

3135. RE: [hex-beam] Re: Ground Fault Device

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-31 16:39:25 UTC
From: David K. Weiss
Topic: 3125 Message: 3135

Hi Clay, Thanks for your reply.

The breaker is back at the panel, 75 feet away. and on a
completely different circuit than the rig is on.
Must be radiation pick up on the coax.
My grounding, is P Poor, and now that I begin THINKING for a
change, I have work to do to even approach what I consider
to be an acceptable work up on grounding.
Got lazy, and that never works well.

Stay tuned, Over next few weeks will report progress in
increments.

Dave
W3DKW

-----Original Message-----
From: hex-beam@yahoogroups.com
[mailto:hex-beam@yahoogroups.com] On Behalf Of Clay K7HC
Sent: Wednesday, March 29, 2006 11:44 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Ground Fault Device

You've already stated it's a single band 20 meter HEX, but a
choke is
always advisable. What I'm not clear on is just what ground
fault
breaker is opening, and where is this breaker in your
circuit?

--- In hex-beam@yahoogroups.com, "dk.weiss" <dk.weiss@...>
wrote:
>
> On 20 meters
> IC 735
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> Antenna about 15 Feet above and 10 feet laterally displacd
> from circuit wiring.
> Ground Fault Breaker is opening
>
> Anyone have a solution for me?
>
> Dave
>

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[Non-text portions of this message have been removed]

3136. Re: [hex-beam] M0CLZ need your e-mail address

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-31 19:53:53 UTC
From: mlflotus@aol.com
Topic: 3122 Message: 3136

My e mail mlflotus@... Mike WA9BTE

[Non-text portions of this message have been removed]

3137. Dale Smith

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-31 10:25:10 UTC
From: Glenn Waters
Topic: 3137 Message: 3137

Have lost contact with one of your members. Dale Smith, anyone know how to contact him.

Thank you

Glenn

On Yahoo!7
360°: Your own space to share what you want with who you want!

[Non-text portions of this message have been removed]

3138. Re: Ground Fault Device

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-03-31 17:58:48 UTC
From: ve3mic
Topic: 3125 Message: 3138

Like others have previously reported, I suspect that RF is traveling down the coax shield. A choke balun should prevent this from happening. There is a formula for figuring out the required number of turns. for HF bands, this usually amounts to 18-21 feet of coax wound into a coil -usually on a 4"-6" form and each loop should touch the other. It should be placed as close to the feedpoint as possible. Also, lets not confuse RF grounds with safety (electrical) grounds. The Hex is basically a two element dipole (dipole + reflector) so it doesn't require an RF ground. Your station -rig, accessories, etc should all be properly grounded for safety's sake, and to prevent ground loop problems.

As for the GFI itself, it's mounted in a grounded metal enclosure (breaker panel box) and it will be properly grounded. If it's not, you've got much bigger problems ;) -Perhaps it's defective?

--- In hex-beam@yahoogroups.com, "David K. Weiss" <dk.weiss@...>
wrote:
>
> Hi Clay, Thanks for your reply.
>
> The breaker is back at the panel, 75 feet away. and on a
> completely different circuit than the rig is on.
> Must be radiation pick up on the coax.
> My grounding, is P Poor, and now that I begin THINKING for a
> change, I have work to do to even approach what I consider
> to be an acceptable work up on grounding.
> Got lazy, and that never works well.
>
> Stay tuned, Over next few weeks will report progress in
> increments.
>
> Dave
> W3DKW
>
> -----Original Message-----
> From: hex-beam@yahoogroups.com
> [mailto:hex-beam@...m] On Behalf Of Clay K7HC
> Sent: Wednesday, March 29, 2006 11:44 PM
> To: hex-beam@yahoogroups.com
> Subject: [hex-beam] Re: Ground Fault Device
>
>
> You've already stated it's a single band 20 meter HEX, but a
> choke is

> always advisable. What I'm not clear on is just what ground
> fault
> breaker is opening, and where is this breaker in your
> circuit?
>
> --- In hex-beam@yahoogroups.com, "dk.weiss" <dk.weiss@>
> wrote:
> >
> > On 20 meters
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> > Dave
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> YAHOO! GROUPS LINKS
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>
> * Visit your group "hex-beam
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>
> [Non-text portions of this message have been removed]
>

3139. VU4AN with Hexbeams

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-04-19 08:49:51 UTC
From: dl7io
Topic: 3139 Message: 3139

Hello, if you work some of the VU4AN/VU... than there is a good chance
to have a hexbeam on the other side as well. The Polish guys and
DL7DF/DK1BT have hexbeams I made in use.
Calls are: VU4AN/VU3RYB, ...SIE, ...NZC, ...RWN,...RYG

3140. Re: [hex-beam] Hexbeam... Cut the coax?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-04-22 17:08:33 UTC
From: edward campbell
Topic: 2794 Message: 3140

Hi,
The wx here in Idaho is finally getting to where I can put up the antenna...I would like a few of the toroids if the offer is still on. I will be more than happy to pay for them and the postage..Anything express to get them here in a hurry would be OK.. How many do you think it will take to do the job??
Thanks,
Ed NT4TT
Idaho Falls, Id
208-521-9035

Duke - NA1A <na1a@...> wrote:

If anyone needs snap-on toroids to make balun for the HexBeam (or anything else), I got about 500 of these available. They fit perfectly over the RG-8 or 9913 size coax. I also have several thousand of the smaller snap on toroids that fit over the RG-59 or standard TV coax cable. These toroids work fantastic in suppressing RFI. I use both extensively here at my shack and RFI proof.
E-mail me direct for more info:
NA1A@...

73,
Duke - NA1A

-- bur52@... wrote:
I had a machine shop cut the toroids in half...and wraped each one with some electrical tape.
It seems to work..no ill effects > All said and done...mighta been quicker to cut the coax! I am using rg-8-u

73
JohnB
kb3lxy

[Non-text portions of this message have been removed]

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3141. Re: [hex-beam] Hexbeam... Cut the coax?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-04-22 17:18:11 UTC
From: Duke - NA1A
Topic: 2794 Message: 3141

Yes, I still got a few. Let me know how many you need. The large ones are $2.25 each and the small ones are $1.50 each.
The larger ones fit over 9913 type coax nicely and the smaller ones fits over the typical RG-8X type coax.
73,
Duke - NA1A

-- edward campbell <ah2beecamp@...> wrote:
Hi,
The wx here in Idaho is finally getting to where I can put up the antenna...I would like a few of the toroids if the offer is still on. I will be more than happy to pay for them and the postage..Anything express to get them here in a hurry would be OK.. How many do you think it will take to do the job??
Thanks,
Ed NT4TT
Idaho Falls, Id
208-521-9035

Duke - NA1A <na1a@...> wrote:

If anyone needs snap-on toroids to make balun for the HexBeam (or anything else), I got about 500 of these available. They fit perfectly over the RG-8 or 9913 size coax. I also have several thousand of the smaller snap on toroids that fit over the RG-59 or standard TV coax cable. These toroids work fantastic in suppressing RFI. I use both extensively here at my shack and RFI proof.
E-mail me direct for more info:
NA1A@...

73,
Duke - NA1A

-- bur52@... wrote:
I had a machine shop cut the toroids in half...and wraped each one with some electrical tape.
It seems to work..no ill effects > All said and done...mighta been quicker to cut the coax! I am using rg-8-u

73
JohnB
kb3lxy

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3142. 6m Hex dimensions?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-04-26 20:48:16 UTC
From: riaan_britz
Topic: 3142 Message: 3142

Hi there, where can I get the dimensions for a 6m Hex? (In metric if possible!)

73`s Riaan
ZS1 EMT

3143. Re: 6m Hex dimensions?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-04-28 11:24:47 UTC
From: dl7io
Topic: 3142 Message: 3143

Hello Riaan,
Files-->DL7IO->ReflectedW_6m.pdf
I have done a simulation for another ZS-HAM about 1.3 years ago(see message 2295).
As I have no 6m license (limited by number and given by lottery in Germany) I have never built/tested it.
73 Holger

--- In hex-beam@yahoogroups.com, "riaan_britz" <zs1emt@...> wrote:
>
> Hi there, where can I get the dimensions for a 6m Hex? (In metric if
> possible!)
>
> 73`s Riaan
> ZS1 EMT
>

3144. Re: [hex-beam] Re: 6m Hex dimensions?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-04-28 16:45:55 UTC
From: Mike Van Winkle
Topic: 3142 Message: 3144

Why bother! a regular yagi is so small on six!...The
hex has no advantage here...A 3 element yagi will fit
into the same space practically and have better
performance..

--- dl7io <dl7io@...> wrote:

> Hello Riaan,
> Files-->DL7IO->ReflectedW_6m.pdf
> I have done a simulation for another ZS-HAM about
> 1.3 years ago(see
> message 2295).
> As I have no 6m license (limited by number and given
> by lottery in
> Germany) I have never built/tested it.
> 73 Holger
>
> --- In hex-beam@yahoogroups.com, "riaan_britz"
> <zs1emt@...> wrote:
> >
> > Hi there, where can I get the dimensions for a 6m
> Hex? (In metric if
> > possible!)
> >
> > 73`s Riaan
> > ZS1 EMT
> >
>
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>

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3145. Re: [hex-beam] Re: 6m Hex dimensions?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-04-28 20:47:32 UTC
From: buysmart2002
Topic: 3142 Message: 3145

Mike's point is a good one if you are thinking of a six meter monoband hexbeam. It would be more productive to just build a Yagi. But if you are building a multiband hexbeam, adding six meters to it is a piece of cake.

I did that on my multiband hexbeam and the SWR results are quite good.

73, Leo, K4KIO

Mike Van Winkle <janmike2001@...> wrote: Why bother! a regular yagi is so small on six!...The
hex has no advantage here...A 3 element yagi will fit
into the same space practically and have better
performance..

--- dl7io <dl7io@...> wrote:

> Hello Riaan,
> Files-->DL7IO->ReflectedW_6m.pdf
> I have done a simulation for another ZS-HAM about
> 1.3 years ago(see
> message 2295).
> As I have no 6m license (limited by number and given
> by lottery in
> Germany) I have never built/tested it.
> 73 Holger
>
> --- In hex-beam@yahoogroups.com, "riaan_britz"
> <zs1emt@...> wrote:
> >
> > Hi there, where can I get the dimensions for a 6m
> Hex? (In metric if
> > possible!)
> >
> > 73`s Riaan
> > ZS1 EMT
> >
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[Non-text portions of this message have been removed]

3146. Re: [hex-beam] Re: 6m Hex dimensions?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-04-28 20:57:39 UTC
From: Transpacific
Topic: 3142 Message: 3146

K4KIO,
Can you share the inches and feet dimensions for the 6M add-on to the 5 band Hex?
Does it bring in the SSB signals well?
Tom WA7OB
----- Original Message -----
From: buysmart2002
To: hex-beam@yahoogroups.com
Sent: Friday, April 28, 2006 1:47 PM
Subject: Re: [hex-beam] Re: 6m Hex dimensions?

Mike's point is a good one if you are thinking of a six meter monoband hexbeam. It would be more productive to just build a Yagi. But if you are building a multiband hexbeam, adding six meters to it is a piece of cake.

I did that on my multiband hexbeam and the SWR results are quite good.

73, Leo, K4KIO

Mike Van Winkle <janmike2001@...> wrote: Why bother! a regular yagi is so small on six!...The
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into the same space practically and have better
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> Hello Riaan,
> Files-->DL7IO->ReflectedW_6m.pdf
> I have done a simulation for another ZS-HAM about
> 1.3 years ago(see
> message 2295).
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> by lottery in
> Germany) I have never built/tested it.
> 73 Holger
>
> --- In hex-beam@yahoogroups.com, "riaan_britz"
> <zs1emt@...> wrote:
> >
> > Hi there, where can I get the dimensions for a 6m
> Hex? (In metric if
> > possible!)
> >
> > 73`s Riaan
> > ZS1 EMT
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[Non-text portions of this message have been removed]

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Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.5.1/326 - Release Date: 4/27/2006

[Non-text portions of this message have been removed]

3147. Re: [hex-beam] Re: 6m Hex dimensions?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-04-29 07:50:12 UTC
From: Dick Best
Topic: 3142 Message: 3147

```
> Hello Riaan,
| > Files-->DL7IO->ReflectedW_6m.pdf
| > I have done a simulation for another ZS-HAM about
| > 1.3 years ago(see
| > message 2295).
| > As I have no 6m license (limited by number and given
| > by lottery in
| > Germany) I have never built/tested it.
| > 73 Holger

I've heard of some strange things but none so strange as lotteries
for 6m licenses. I can only imagine the Greenies have considered
that too much RF at 6m causes sterility ! ! !
Rgds. Dick.
3D2BA
```

3148. Toroids for HexBeam and RFI Suppressions

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-04-30 05:43:54 UTC
From: Duke - NA1A
Topic: 3148 Message: 3148

Just got in some of the very best extra heavy duty toroids usable in RFI suppressions. These are snap-on ferrite toroids. They fit very well over 9913 or RG8 type coax. Other sizes are also available.
Anyone interested e-mail me directly for picture and more infos.
NA1A@...

<!-- |**|end egp html banner|**| -->

[Non-text portions of this message have been removed]

3149. Re: [hex-beam] Hexbeam... Cut the coax?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-04-30 21:27:29 UTC
From: edward campbell
Topic: 2794 Message: 3149

Just a note to say I have the beam up...it is at 20 ft at the moment... will be up to 40 shortly..

1st station worked V73RY after 3rd call...then UN9IO 1st call...
then it goes on from there..

swr's look good across the board...however got a high swr flag on 17 off the rig...but on the swr meter it looked good...so we will see..but am happy with results so far..

hope to hear you guys on next weekend for the 7land qso party..

Ed NT4TT Idaho Falls, Id

Yahoo! Mail goes everywhere you do. Get it on your phone.

[Non-text portions of this message have been removed]

3150. Re: [hex-beam] Hexbeam... Cut the coax?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-04-30 21:29:21 UTC
From: bur52@aol.com
Topic: 2794 Message: 3150

:)
good luck with it !
73
k3jvb

[Non-text portions of this message have been removed]

3151. Re: 6m Hex dimensions?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-02 07:13:24 UTC
From: dl7io
Topic: 3142 Message: 3151

Hello Dick,
we have only a limited number of licenses for 6m (I guess around 7000 for 80000 HAM's) and the user status in this band is secondary as there are some TV activities already that may be influenced.

To get a license you had to apply for and the winner were taken like in a lottery out of the box. Me and my wife applied but like in the real life we never win/won in lotteries...

We take it easy as there is still enough to do with serious business, kids growing and we even have some work left on the hf bands (319 DXCC confirmed but strong defizit on the low bands 80/160m). The next maximum is far away and so we have a target for later.

Where are you located in Fiji? On Viti Levu and if so where?
We have been numerous times to Fiji since 1992 and used 3D2IO and 3D2AO (my wife Birgit, DL7IQ).

73 Holger

> I've heard of some strange things but none so strange as lotteries
> for 6m licenses. I can only imagine the Greenies have considered
> that too much RF at 6m causes sterility ! ! !
> Rgds. Dick.
> 3D2BA
>

3152. To HK3SA - Thats a big rotor!

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-03 17:24:55 UTC
From: t_ashland
Topic: 3152 Message: 3152

I couldn't help admiring your pics in the photos section. You are truly lucky to have a floating QTH! I noticed the rotor is awfully big though. Do you have to turn boat to work Europe?
Nice pics!
73,
Terry, WK0F

3153. Re: [hex-beam] Re: 6m Hex dimensions?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-02 19:51:59 UTC
From: Dick Best
Topic: 3142 Message: 3153

Hello Holger ..... Thanks for the explanation ! ! I
would have
thought that in DL, the old low-band TV would have been forgotten by
now.
Anyway, I live about 5km to the east of Sigatoka and have been here
for 9 years. Maybe see you one day if you come this way or maybe
contact on the bands if they revive ! ! I'm nearly always on Olivia
so
may contact you on that mode if you use it. Often worked HB/DL but
at present bands are hopeless.

73.
Dick. 3D2BA

3154. 2M/70cms vertical above h/b Hexbeam is it possible ????

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-07 08:23:40 UTC
From: un6kv
Topic: 3154 Message: 3154

Hi Guys

Looking at homebrewing a Hexbeam. I want to put a 2M/70cms Diamond vertical above the Hexbeam and run the coax down the reflector side of the mast. Has anyone done this and do you have any interaction ?

Thanks for reading any info appreciated.

73 John VK6NU

3155. Re: [hex-beam] Re: 6m Hex dimensions?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-10 20:32:26 UTC
From: Darren G0TSM
Topic: 3142 Message: 3155

Looks like Holger will get to test his 6m hexbeam :-)

Finally very good news from DL: In July the 6m band will be released
generally to all radio amateurs in DL (except novice class). So
thousands of new stations will be active on 6m from DL this summer.
Many of them had to wait 15 years for this opportunity.... 73 Joe,
CT1HZE/DL8HCZ
<http://www.uksmg.org/mailform.php?postno=7878>Joe, DL8HCZ -
Wednesday, May 03 2006 at 19:39 (GMT)

At 19:51 02/05/2006, you wrote:
>Hello Holger ..... Thanks for the explanation ! ! I
>would have
>thought that in DL, the old low-band TV would have been forgotten by
>now.
>Anyway, I live about 5km to the east of Sigatoka and have been here
>for 9 years. Maybe see you one day if you come this way or maybe
>contact on the bands if they revive ! ! I'm nearly always on Olivia
>so
>may contact you on that mode if you use it. Often worked HB/DL but
>at present bands are hopeless.
>
>73.
>Dick. 3D2BA
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>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and
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>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Ferrite+bead&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+an
d+craft+supply&w4=Ferrite+bead&c=4&s=78&.sig=RII4nPQG0W5fxnRTgzD_lg>Ferrite
>bead
>
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hoogroups.com
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>This message has been scanned for viruses and
>dangerous content by <http://www.mailscanner.info/>MailScanner, and is
>believed to be clean.

3156. Re: 6m Hex dimensions?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-10 22:27:04 UTC
From: t_ashland
Topic: 3142 Message: 3156

I too would like to add 6 meter elements to my 5 band hex. Can I also get the dimensions? Did you feed it separately? Spacing on the poles, etc. Any help would be appreciated.
Thanks,
Terry, WK0F

--- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@...> wrote:
>
> K4KIO,
> Can you share the inches and feet dimensions for the 6M add-on to the 5 band Hex?
> Does it bring in the SSB signals well?
> Tom WA7OB
> ----- Original Message -----
> From: buysmart2002
> To: hex-beam@yahoogroups.com
> Sent: Friday, April 28, 2006 1:47 PM
> Subject: Re: [hex-beam] Re: 6m Hex dimensions?
>
>
> Mike's point is a good one if you are thinking of a six meter monoband hexbeam. It would be more productive to just build a Yagi. But if you are building a multiband hexbeam, adding six meters to it is a piece of cake.
>
> I did that on my multiband hexbeam and the SWR results are quite good.
>
> 73, Leo, K4KIO
>
> Mike Van Winkle <janmike2001@...> wrote: Why bother! a regular yagi is so small on six!...The
> hex has no advantage here...A 3 element yagi will fit
> into the same space practically and have better
> performance..
>
> --- dl7io <dl7io@...> wrote:
>
> > Hello Riaan,
> > Files-->DL7IO->ReflectedW_6m.pdf
> > I have done a simulation for another ZS-HAM about
> > 1.3 years ago(see
> > message 2295).
> > As I have no 6m license (limited by number and given
> > by lottery in

> > Germany) I have never built/tested it.
> > 73 Holger
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> > --- In hex-beam@yahoogroups.com, "riaan_britz"
> > <zs1emt@> wrote:
> > >
> > > Hi there, where can I get the dimensions for a 6m
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> > > possible!)
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> > > 73`s Riaan
> > > ZS1 EMT
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>
> [Non-text portions of this message have been removed]
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>
>
> [Non-text portions of this message have been removed]
>

3157. Re: [hex-beam] Re: 6m Hex dimensions?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-11 01:10:45 UTC
From: Leo Shoemaker
Topic: 3142 Message: 3157

Terry, I have added 6 meters to my five band hexbeam and it is fed with the same coax that feeds the other bands, and at the top of the post. SWR curves look pretty good. You can see info on my hexbeam web site.

73,

Leo, K4KIO

t_ashland <t_ashland@...> wrote: I too would like to add 6 meter elements to my 5 band hex. Can I also
get the dimensions? Did you feed it separately? Spacing on the poles,
etc. Any help would be appreciated.
Thanks,
Terry, WK0F

--- In hex-beam@yahoogroups.com, "Transpacific" wrote:
>
> K4KIO,
> Can you share the inches and feet dimensions for the 6M add-on to
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> Does it bring in the SSB signals well?
> Tom WA7OB
> ----- Original Message -----
> From: buysmart2002
> To: hex-beam@yahoogroups.com
> Sent: Friday, April 28, 2006 1:47 PM
> Subject: Re: [hex-beam] Re: 6m Hex dimensions?
>
>
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monoband hexbeam. It would be more productive to just build a Yagi.
But if you are building a multiband hexbeam, adding six meters to it
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>
> I did that on my multiband hexbeam and the SWR results are quite
good.
>
> 73, Leo, K4KIO
>
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> hex has no advantage here...A 3 element yagi will fit
> into the same space practically and have better
> performance..
>
> --- dl7io wrote:

>
> > Hello Riaan,
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> > message 2295).
> > As I have no 6m license (limited by number and given
> > by lottery in
> > Germany) I have never built/tested it.
> > 73 Holger
> >
> > --- In hex-beam@yahoogroups.com, "riaan_britz"
> > wrote:
> > >
> > > Hi there, where can I get the dimensions for a 6m
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> No virus found in this incoming message.
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>
> [Non-text portions of this message have been removed]
>

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[Non-text portions of this message have been removed]

3158. Dimensions for 4 band Hex - 20/15/10/6 ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-10 12:42:12 UTC
From: dekockwillem
Topic: 3158 Message: 3158

Hi all, I would like to construct a 4 band Hexbeam to cover 20/15/10/6m and don't need the 12m and 17m bands as I don't have a Rig that covers those frequencies. The 6m band is just an extra if possible and will eliminate the need to put up another antenna for 6m as I am limited with space on the tower. If 6m proves to be a problem, the dimensions for a 20/15/10m Hexbeam will be ok.

Hope you can assist!
73's de Willem
ZS1WDK

3159. Re: 6m Hex dimensions?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-12 21:09:48 UTC
From: dl7io
Topic: 3142 Message: 3159

Hey Darren, the new law is not confirmed yet and still in the
negotiating phase but probably will be coming until summer.

So I first have to try to find a budget for a 6m rig before I start
with antenna work...
As in every economy our family also has more applications running
than the budget has possibilities. And I got 3 girls against my
vote...

I would not bet that I will be one of the first new signals on 6m.

Nevertheless I can measure here already...
73 Holger

PS Dick: Is Aisea 3D2AA still living in Sigatoka or did he move to
the Pacific Harbour area already?
I visited him a few time and even have been in the sugar factory
where he worked´this time.

--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@...> wrote:
>
> Looks like Holger will get to test his 6m hexbeam :-)
>
> Finally very good news from DL: In July the 6m band will be
released
> generally to all radio amateurs in DL (except novice class). So
> thousands of new stations will be active on 6m from DL this summer.
> Many of them had to wait 15 years for this opportunity.... 73 Joe,
> CT1HZE/DL8HCZ
> <http://www.uksmg.org/mailform.php?postno=7878>Joe, DL8HCZ -
> Wednesday, May 03 2006 at 19:39 (GMT)
>
>
> At 19:51 02/05/2006, you wrote:
> >Hello Holger ..... Thanks for the explanation ! ! I
> >would have
> >thought that in DL, the old low-band TV would have been forgotten
by
> >now.
> >Anyway, I live about 5km to the east of Sigatoka and have been here
> >for 9 years. Maybe see you one day if you come this way or maybe
> >contact on the bands if they revive ! ! I'm nearly always on
Olivia
> >so
> >may contact you on that mode if you use it. Often worked HB/DL but
> >at present bands are hopeless.

> >
> >73.
> >Dick. 3D2BA
> >
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&w4=Ferrite+bead&c=4&s=78&.sig=nophR1-h7ShXYe5gy8M6WQ>Ham
> >radio
> ><http://groups.yahoo.com/gads?
t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supp
ly&w4=Ferrite+bead&c=4&s=78&.sig=635Q0aH_KfGQMHA8eL0aLw>Craft
> >hobby
> ><http://groups.yahoo.com/gads?
t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and
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by
> >and craft supply
> ><http://groups.yahoo.com/gads?
t=ms&k=Ferrite+bead&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+sup
ply&w4=Ferrite+bead&c=4&s=78&.sig=RII4nPQG0W5fxnRTgzD_lg>Ferrite
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> >This message has been scanned for viruses and
> >dangerous content by <http://www.mailscanner.info/>MailScanner,
and is

> >believed to be clean.
>

3160. Re: [hex-beam] Re: 6m Hex dimensions?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-12 23:54:14 UTC
From: Dick Best
Topic: 3142 Message: 3160

Hello Holger ..... Aisea still in the same place and active
mostly on 'phone.
I think he is on this group so may contact ypu direct.
Cheers.
Dick. 3D2BA

3161. Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-18 03:17:18 UTC
From: kc0rdg
Topic: 3161 Message: 3161

Hi all,

I'm fairly new to the group. I am going to be buying or homebrewing a Hexbeam sometime before winter sets in, from what I gather, this antenna is the best set of compromises I am comfortable with.

I am looking for some good recommendations on a mast/tower for the HB and a rotor solution. I'm aware the antenna is pretty light and thus the requirements aren't as much as say, a SteppIR, but I am unsure of exactly how light one can go.

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Thanks for the replies,
Elijah

3162. Re: [hex-beam] Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-18 11:31:43 UTC
From: we1x@comcast.net
Topic: 3161 Message: 3162

Elijah,

I've been using the commercially made 5 band Hexbeam for 5 years. My installation is a bit unusual as I have the rotator mounted a few feet off the ground and it turns a 30 foot push-up mast on which the Traffie Hexbeam is mounted. Together the mast and antenna weigh about 40 lbs. I use the Yaesu G-1000DXA. It is a bit of overkill given the mast/antenna weight and windload. However, I figured with snow and ice loading I wanted to be a bit on the safe side.

Anyway, if you are considering a more conventional installation...tower, short mast, and rotator in/on the tower then the G-800DXA should be fine.

Harry WE1X

---------- Original message ----------
From: "kc0rdg" <kc0rdg@...>

> Hi all,
>
> I'm fairly new to the group. I am going to be buying or homebrewing a
> Hexbeam sometime before winter sets in, from what I gather, this
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> exactly how light one can go.
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> I'm looking for brands and models of both that are known to work
> really well for this application. I was personally leaning towards
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> tower. There is a 40' crank mast made by US Tower that supports 6.8
> ft of wind area at 70MPH. My reasoning for going with a crank is
> because I could lower it if bad weather is approaching or if I go on
> vacation, etc. I would buy new, not used.
>
> Thanks for the replies,
> Elijah
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

3163. Re: Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-18 15:02:09 UTC
From: kc0rdg
Topic: 3161 Message: 3163

--- In hex-beam@yahoogroups.com, we1x@... wrote:
>
>
> Anyway, if you are considering a more conventional installation...tower, short mast, and rotator in/on the tower then the G-800DXA should be fine.
>
> Harry WE1X

Would the Yaesu G-450A work? I live in Minnesota, we do have ice and snow here...

3164. Re: [hex-beam] Re: Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-18 15:09:46 UTC
From: kd1ia
Topic: 3161 Message: 3164

Well I dont know about a hex beam but, I have a 450a on a vhf/uhf stack with a 4 ele 6 13 ele 2m and 10 ele 432 with a commet gp15 ontop for two years here in New England and the most it has done is rotate on teh mast. This is mostly because I have the rotor mounted on a cheap TV mast at about 20ft. bracketed to the side of my house. HTH
de John ko1h
----- Original Message -----
From: kc0rdg
To: hex-beam@yahoogroups.com
Sent: Thursday, May 18, 2006 3:02 PM
Subject: [hex-beam] Re: Mast/Tower & Rotor?

--- In hex-beam@yahoogroups.com, we1x@... wrote:
>
>
> Anyway, if you are considering a more conventional
installation...tower, short mast, and rotator in/on the tower then the
G-800DXA should be fine.
>
> Harry WE1X

Would the Yaesu G-450A work? I live in Minnesota, we do have ice and
snow here...

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No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.392 / Virus Database: 268.6.0/342 - Release Date: 5/17/2006

No virus found in this outgoing message.
Checked by AVG Free Edition.

Version: 7.1.392 / Virus Database: 268.6.0/342 - Release Date: 5/17/2006

[Non-text portions of this message have been removed]

3165. Re: [hex-beam] Re: Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-18 17:45:37 UTC
From: we1x@comcast.net
Topic: 3161 Message: 3165

Not sure. If the G-450A is mounted in a tower with a short mast I would think yes. However, I tend to be conservative on these thiings and prefer to "over engineer". The last thiing I want to do is climb a tower or roof to fix a rotator because it was under sized. Rather spend the extra bucks and have margin and peace of mind.

By the way I tried the 450A on my configuration and it was too light duty.

Harry

---------- Original message ----------
From: "kc0rdg" <kc0rdg@...>

> --- In hex-beam@yahoogroups.com, we1x@... wrote:
> >
> >
> > Anyway, if you are considering a more conventional
> installation...tower, short mast, and rotator in/on the tower then the
> G-800DXA should be fine.
> >
> > Harry WE1X
>
> Would the Yaesu G-450A work? I live in Minnesota, we do have ice and
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[Non-text portions of this message have been removed]

3166. Re: [hex-beam] Re: Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-18 18:34:18 UTC
From: bur52@aol.com
Topic: 3161 Message: 3166

For what it is worth

I use a Rohn 50 foot telescoping mast. I did away with the uppermost section(weakest)
And I have it bracketed to my qth. The Hex is at 38 feet. It is guyed, and also spun with a medium duty TV rotor. Works great ! It also uses a neat little digital control box. And has a v remote control. The only draw back was...I should have locked the mast sections with the provided hardware...or used sheet matal screws. In some high winds it did move the sections a little. Nothing serious. But it is off about 20 degrees. Easy fix though.
JohnB
k3jvb

[Non-text portions of this message have been removed]

3167. Re: [hex-beam] Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-18 18:49:10 UTC
From: Transpacific
Topic: 3161 Message: 3167

I'm using the Yaesu G-450A on a 5 band hex beam. Mounted 34 feet on roof. The rotor turns a 3 ft section of mast going into the antenna base. No problems.
Tom WA7OB
----- Original Message -----
From: kc0rdg
To: hex-beam@yahoogroups.com
Sent: Wednesday, May 17, 2006 8:17 PM
Subject: [hex-beam] Mast/Tower & Rotor?

Hi all,

I'm fairly new to the group. I am going to be buying or homebrewing a Hexbeam sometime before winter sets in, from what I gather, this antenna is the best set of compromises I am comfortable with.

I am looking for some good recommendations on a mast/tower for the HB and a rotor solution. I'm aware the antenna is pretty light and thus the requirements aren't as much as say, a SteppIR, but I am unsure of exactly how light one can go.

I'm looking for brands and models of both that are known to work really well for this application. I was personally leaning towards something like a Yaesu G-800DXA and some kind of crank up mast or tower. There is a 40' crank mast made by US Tower that supports 6.8 ft of wind area at 70MPH. My reasoning for going with a crank is because I could lower it if bad weather is approaching or if I go on vacation, etc. I would buy new, not used.

Thanks for the replies,
Elijah

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Checked by AVG Free Edition.
Version: 7.1.392 / Virus Database: 268.6.0/341 - Release Date: 5/16/2006

[Non-text portions of this message have been removed]

3168. Re: [hex-beam] Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-18 20:03:26 UTC
From: John Lepire
Topic: 3161 Message: 3168

your gonna love this ....
ive got a mosley tri band on a 40 ft push up pole 30 ft up with an
aliance rotor , no problums ;-) ;-)
----- Original Message -----
From: "Transpacific" <transpacific@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, May 18, 2006 1:49 PM
Subject: Re: [hex-beam] Mast/Tower & Rotor?

I'm using the Yaesu G-450A on a 5 band hex beam. Mounted 34 feet on roof.
The rotor turns a 3 ft section of mast going into the antenna base. No
problems.
Tom WA7OB
----- Original Message -----
From: kc0rdg
To: hex-beam@yahoogroups.com
Sent: Wednesday, May 17, 2006 8:17 PM
Subject: [hex-beam] Mast/Tower & Rotor?

3169. Re: [hex-beam] Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-18 20:15:00 UTC
From: bur52@aol.com
Topic: 3161 Message: 3169

Wow..that gives new meaning to "try it " LOL

I would think the only issue is...no brake???
JohnB

[Non-text portions of this message have been removed]

3170. Re: [hex-beam] Re: Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-18 22:59:40 UTC
From: richard
Topic: 3161 Message: 3170

I use a G400RC and consider it overkill
The mast is a 37ft 2 section windup homebrew (silent key sale)

Dick M0CLZ

----- Original Message -----
From: "kc0rdg" <kc0rdg@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, May 18, 2006 4:02 PM
Subject: [hex-beam] Re: Mast/Tower & Rotor?

> --- In hex-beam@yahoogroups.com, we1x@... wrote:
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>> Anyway, if you are considering a more conventional
> installation...tower, short mast, and rotator in/on the tower then the
> G-800DXA should be fine.
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>> Harry WE1X
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> Would the Yaesu G-450A work? I live in Minnesota, we do have ice and
> snow here...
>
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3171. Re: [hex-beam] Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-18 05:03:34 UTC
From: Michael Doherty
Topic: 3161 Message: 3171

I'm using the mast from hexbeam with a radio shack tv rotator at the bottom. Works well for me. There are some pictures in the Yahoo HexBeam Photos section.

Good luck and 73's
kd5wby

On 5/17/06, kc0rdg <kc0rdg@...> wrote:
>
> Hi all,
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> I'm fairly new to the group. I am going to be buying or homebrewing a
> Hexbeam sometime before winter sets in, from what I gather, this
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> Thanks for the replies,
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> ---
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[Non-text portions of this message have been removed]

3172. RE: [hex-beam] Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-18 15:31:38 UTC
From: Dave Flack
Topic: 3161 Message: 3172

Harry,

What kind of push-up mast are you using? Is it guyed and if so, what sort of bearing do you use at the guy points to allow it to turn.

Dave Flack

w6dlf@...

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com]
On Behalf Of we1x@...
Sent: Thursday, May 18, 2006 4:32 AM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] Mast/Tower & Rotor?

Elijah,

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Anyway, if you are considering a more conventional installation...tower, short mast, and rotator in/on the tower then the G-800DXA should be fine.

Harry WE1X

---------- Original message ----------
From: "kc0rdg" <kc0rdg@...>

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=nophR1-h7ShXYe5gy8M6WQ> radio

Craft
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Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4&s=78&.s

ig=635Q0aH_KfGQMHA8eL0aLw> hobby

Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4&s=78&.sig=FnsugybLK5zQ_ysmpJeBKQ> and craft supply

Ferrite
<http://groups.yahoo.com/gads?t=ms&k=Ferrite+bead&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4&s=78&.sig=RII4nPQG0W5fxnRTgzD_lg> bead

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[Non-text portions of this message have been removed]

3173. Re: [hex-beam] Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-19 23:50:36 UTC
From: Richard Broughton
Topic: 3161 Message: 3173

Elijah,

Check out this web site.

http://w4ti.net/hexbeam.html

Rich, NE4M

--- kc0rdg <kc0rdg@...> wrote:

> Hi all,
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> I'm fairly new to the group. I am going to be
> buying or homebrewing a
> Hexbeam sometime before winter sets in, from what I
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> Thanks for the replies,
> Elijah
>
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>

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3174. Hex Beam wind load calculation/estimate?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-18 20:31:58 UTC
From: ve3mic
Topic: 3174 Message: 3174

Since we seem to be on the topic.... Has anyone calculated(or best estimate) the wind load data for a 5 and hex beam?

3175. RE: [hex-beam] Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-21 12:14:36 UTC
From: we1x@comcast.net
Topic: 3161 Message: 3175

David,

I bought the HDX mast from Traffie Technology when I purchased the 5 band hexbeam. Base of mast is about 2" with top section about 1" or 1.5". 4 sections I believe. Mast is of very good quality..recall Mike Traffie telling me the mast is from a flag pole company that adapted a pole design to be a mast. Mike had an option where you could purchase the regular mast or one that came in anodized bronze (blends in with the trees) which I did.

The mast comes with two guy rings for 3 guys at each ring. The mast rotates nicely in the rings. No problem. The mast also comes with two adaptors. One is a short "mast" the other is about 3 or 4 feet long and provides a bit more height. I use the short one as (a) the antenna, mast, and long adaptor become a bit unwieldy when putting the whole thing up, and (b) with the extra height I would have to remove or prune more trees..which wasn't going to happen.

Dug about a 5 foot hole and filled it with about 200 lbs of Quikcrete. Mounted a length of galvanized steel pipe in the hole with about3 feet of pipe above ground. On top of the pipe I mounted the Yaesu G-1000DXA.

Assembled antenna on mast, guys on the mast.

It takes at least two people (should have 3) to move mast/antenna assembly and lift onto the rotator. The mast/antenna assembly is not heavy, but unwieldly..so you need two people to help you maneuver and set into the rotator.

Make the necessary adjustments to ensure antenna is pointed north, etc.

For guys I use 5/16" double braid black antenna rope...Overkill regarding size, probably could get away with 3/16". Be sure to STRETCH the rope before using as guys as the rope does stretch over time and you will be repeatedly taking up slack. At the mast end I attach the rope to the guy rings using "quick release" clips..believe the hexbeam manual describes them.

On the ground the guys are attached to "dog run screws". These you can get at a pet store, Home Depot, etc. They are big corkscrews used for attaching dog runs or leads for those of us who put pets in the back yard and don't want Fido to go off chasing Spot in the neighbors flower beds.

To avoid having to tie and re-tie knots when readjusting the guys I went to Home Depot and purchased 6 "rope pulls". These are spring loaded little contraptions that you feed the rope through and when you release the unit it clamps down on the guy. If you need to tighten you simply pull more rope through the "pull". If you need to loosen you press the "pull's" plunger. Makes things a lot easier. Attach 2 "rope pulls" onto each "dog run screw".

When adjusting the guys make sure they are tight, but not overly so. The guys are to steady the mast/antenna and minimize any swaying (otherwise you will crack the rotator and all

comes down). If you make the guys too tight you are putting a lot of downward pressure on the mast and rotator ... which add unnecessary stress. Every month or so I check to make sure the guys are not too loose.

That's it. Been up for 5 years. No permit, no excavation. No problem with neighbors. XYL-accepted (but not necessairly approved). If I need to take down probably can do the whole thing (with some help) in 30 minutes or less.

Hope this helps.

Harry

---------- Original message ----------
From: "Dave Flack" <daveflack@...>

> Harry,
>
>
>
> What kind of push-up mast are you using? Is it guyed and if so,
> what sort of bearing do you use at the guy points to allow it to
> turn.
>
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> Dave Flack
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> w6dlf@...
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> On Behalf Of we1x@...
> Sent: Thursday, May 18, 2006 4:32 AM
> To: hex-beam@yahoogroups.com
> Subject: Re: [hex-beam] Mast/Tower & Rotor?
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> From: "kc0rdg"
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> _____
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[Non-text portions of this message have been removed]

3176. Re: Mast/Tower & Rotor?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-23 09:09:42 UTC
From: Colin
Topic: 3161 Message: 3176

Hi Dick
I use an old Emotator (1102MXX..it`s so old i can`t find the specs
but i suspect it`s similar to a G400).
It used to turn a 3 ele 10m quad and handles the hex with no problems
at all.
A little off topic, but i wondered if you ever got around to doing
that side by side comparison to the cobwebb antenna?

73
Colin 2E0XBM

--- In hex-beam@yahoogroups.com, "richard" <m0clz1@...> wrote:
>
> I use a G400RC and consider it overkill
> The mast is a 37ft 2 section windup homebrew (silent key sale)
>
> Dick M0CLZ
>
> ----- Original Message -----
> From: "kc0rdg" <kc0rdg@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Thursday, May 18, 2006 4:02 PM
> Subject: [hex-beam] Re: Mast/Tower & Rotor?
>
>
> > --- In hex-beam@yahoogroups.com, we1x@ wrote:
> >>
> >>
> >> Anyway, if you are considering a more conventional
> > installation...tower, short mast, and rotator in/on the tower
then the
> > G-800DXA should be fine.
> >>
> >> Harry WE1X
> >
> > Would the Yaesu G-450A work? I live in Minnesota, we do have ice
and
> > snow here...
> >
> >
>

3177. 40 meter Hex Beam spreader length

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-22 17:51:36 UTC
From: Ron Weaver
Topic: 3177 Message: 3177

I have decided to build a 40 meter Hex Beam, may inlude 30 meters as well if the 40 portion performs well.

In shopping for spreaders I am unclear of the length required to accomodate the two 40 meter elements.

Any formula's or practical applications out there in Hex land?

All the Best

Ron - W6OM

www.qsl.net/w6om

Ring'em or ping'em. Make PC-to-phone calls as low as 1¢/min with Yahoo! Messenger with Voice.

[Non-text portions of this message have been removed]

3178. Re: 40 meter Hex Beam spreader length

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-24 11:13:24 UTC
From: dl7io
Topic: 3177 Message: 3178

Hello Ron,
spreaders have to be 6m long.
Data an EZNEC-model can be found on my webpage
www.hexbeam.de under data & files.

Element wire: bare copper wire of 1.5mm²
distance between 40/30m wires 100 cm.
If you use insulated wire, elements will be shorter 3-8%, depending
on kind and thickness of wire insulation.

40m:
length of half reflector: 1134 cm
length of half radiator: 1072 cm
lenght of reflector insulator: 9 cm
length of radiator insulator: 10 cm
30m:
length of half reflector: 787 cm
length of half radiator: 766 cm
lenght of reflector insulator: 15 cm
length of radiator insulator: 19 cm

73 Holger

PS. I have prepared elements and insulators in stock.

--- In hex-beam@yahoogroups.com, Ron Weaver <w6ron@...> wrote:
>
> I have decided to build a 40 meter Hex Beam, may inlude 30 meters
as well if the 40 portion performs well.
>
> In shopping for spreaders I am unclear of the length required to
accomodate the two 40 meter elements.
>
> Any formula's or practical applications out there in Hex land?
>
>
> All the Best
>
> Ron - W6OM
>
> www.qsl.net/w6om
>

3179. Re: [hex-beam] Re: 40 meter Hex Beam spreader length

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-24 18:30:54 UTC
From: Pieter & Petro du Toit
Topic: 3177 Message: 3179

Can this be truth that a 40m radiator is 1072 cm long (should it not be 10.72 meters) only a question if it is as it is then i can fit a few 40 m beams up at my place 73 good luck , i have some 6 meter by 16 mm od solid fiberglass rods witch i want to use to do a 40 m hex but it will be some time before i do that ,de zl1pdt
I'm not old only enjoying the traveling life !!
----- Original Message -----
From: dl7io
To: hex-beam@yahoogroups.com
Sent: Wednesday, May 24, 2006 11:13 PM
Subject: [hex-beam] Re: 40 meter Hex Beam spreader length

Hello Ron,
spreaders have to be 6m long.
Data an EZNEC-model can be found on my webpage
www.hexbeam.de under data & files.

Element wire: bare copper wire of 1.5mm²
distance between 40/30m wires 100 cm.
If you use insulated wire, elements will be shorter 3-8%, depending
on kind and thickness of wire insulation.

40m:
length of half reflector: 1134 cm
length of half radiator: 1072 cm
lenght of reflector insulator: 9 cm
length of radiator insulator: 10 cm
30m:
length of half reflector: 787 cm
length of half radiator: 766 cm
lenght of reflector insulator: 15 cm
length of radiator insulator: 19 cm

73 Holger

PS. I have prepared elements and insulators in stock.

--- In hex-beam@yahoogroups.com, Ron Weaver <w6ron@...> wrote:
>
> I have decided to build a 40 meter Hex Beam, may inlude 30 meters
as well if the 40 portion performs well.
>
> In shopping for spreaders I am unclear of the length required to
accomodate the two 40 meter elements.
>
> Any formula's or practical applications out there in Hex land?
>

>
> All the Best
>
> Ron - W6OM
>
> www.qsl.net/w6om
>

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3180. Re: [hex-beam] Re: 40 meter Hex Beam spreader length

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-24 18:52:01 UTC
From: Darren G0TSM
Topic: 3177 Message: 3180

The 40M Hexbeam would be approximately 11.4M
across at it's widest point - spreader tip to the
opposite spreader tip. (5.7M turning circle).

73 Darren

At 18:30 24/05/2006, you wrote:
>Can this be truth that a 40m radiator is 1072 cm
>long (should it not be 10.72 meters) only a
>question if it is as it is then i can fit a
>few 40 m beams up at my place 73 good luck , i
>have some 6 meter by 16 mm od solid fiberglass
>rods witch i want to use to do a 40 m hex but it
>will be some time before i do that ,de zl1pdt
>I'm not old only enjoying the traveling life !!
> ----- Original Message -----
> From: dl7io
> To: hex-beam@yahoogroups.com
> Sent: Wednesday, May 24, 2006 11:13 PM
> Subject: [hex-beam] Re: 40 meter Hex Beam spreader length
>
>
> Hello Ron,
> spreaders have to be 6m long.
> Data an EZNEC-model can be found on my webpage
> www.hexbeam.de under data & files.
>
> Element wire: bare copper wire of 1.5mm²
> distance between 40/30m wires 100 cm.
> If you use insulated wire, elements will be shorter 3-8%, depending
> on kind and thickness of wire insulation.
>
> 40m:
> length of half reflector: 1134 cm
> length of half radiator: 1072 cm
> lenght of reflector insulator: 9 cm
> length of radiator insulator: 10 cm
> 30m:
> length of half reflector: 787 cm
> length of half radiator: 766 cm
> lenght of reflector insulator: 15 cm
> length of radiator insulator: 19 cm
>
> 73 Holger
>

> PS. I have prepared elements and insulators in stock.
>
>
> --- In hex-beam@yahoogroups.com, Ron Weaver <w6ron@...> wrote:
> >
> > I have decided to build a 40 meter Hex Beam, may inlude 30 meters
> as well if the 40 portion performs well.
> >
> > In shopping for spreaders I am unclear of the length required to
> accomodate the two 40 meter elements.
> >
> > Any formula's or practical applications out there in Hex land?
> >
> >
> > All the Best
> >
> > Ron - W6OM
> >
> > www.qsl.net/w6om
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raft+supply&w4=Ferrite+bead&c=4&s=78&.sig=nophR1-h7ShXYe5gy8M6WQ>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and
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>bead
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> the <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>----------

3181. Re: [hex-beam] Re: 40 meter Hex Beam spreader length

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-24 13:48:39 UTC
From: Ron Weaver
Topic: 3177 Message: 3181

Thanks Holger

Is that 6M total or 6M from center hub to tip.

Cheers

dl7io <dl7io@...> wrote: Hello Ron,
spreaders have to be 6m long.
Data an EZNEC-model can be found on my webpage
www.hexbeam.de under data & files.

Element wire: bare copper wire of 1.5mm²
distance between 40/30m wires 100 cm.
If you use insulated wire, elements will be shorter 3-8%, depending
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length of half reflector: 787 cm
length of half radiator: 766 cm
lenght of reflector insulator: 15 cm
length of radiator insulator: 19 cm

73 Holger

PS. I have prepared elements and insulators in stock.

--- In hex-beam@yahoogroups.com, Ron Weaver <w6ron@...> wrote:
>
> I have decided to build a 40 meter Hex Beam, may inlude 30 meters
as well if the 40 portion performs well.
>
> In shopping for spreaders I am unclear of the length required to
accomodate the two 40 meter elements.
>
> Any formula's or practical applications out there in Hex land?
>
>
> All the Best
>
> Ron - W6OM
>
> www.qsl.net/w6om

>

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All the Best

Ron - W6OM

www.qsl.net/w6om

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[Non-text portions of this message have been removed]

3182. HX-5Bi, 40m? Also, RF choke needed?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-25 05:06:02 UTC
From: kc0rdg
Topic: 3182 Message: 3182

I am wondering if anyone out there who has the Traffie Hexbeam is able to get it on 30 or 40m with a tuner. If so, how is the performance, both RX and TX?

I was going to order 6 of these http://www.marvac.com/detail.aspx?ID=22298 and install them near the coax-antenna connection. Is a RF choke _needed_ with the HB?

Thanks

3183. One year update

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-25 17:16:00 UTC
From: bur52
Topic: 3183 Message: 3183

Hello all

Well the hex has been up a year.

All I can say...it is as good, maybe better than advertised.
I find it very potent for a "small foot-print" beam !
I have worked much dx, both in the Pacific, and Europe...including
The mid east. I keep pinching myself, as time , after time, I keep
breaking pile ups with medium power.

It performs great on all five bands, and the swr is flat (1.1 to 1.3)
I am considering a 40 meter hex..but I just do not know how to sqeez
it in.

Mine is at 39 feet. On a Rohn push up mast. I turn it with a channel
master rotor. So far it has been through 60-65 mph gust's no issues
with the antenna. I did have the mast section move about 20 degress.
But that was my fault for not locking properly...easy fix !

It may be a little pricey, but for the size, and performance...I
would buy another.
73
K3jvb / JohnB

3184. Re: HX-5Bi, 40m? Also, RF choke needed?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-25 20:36:34 UTC
From: ve3mic
Topic: 3182 Message: 3184

--- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@...> wrote:
>
> I am wondering if anyone out there who has the Traffie Hexbeam is
able
> to get it on 30 or 40m with a tuner. If so, how is the
performance,
> both RX and TX?
>
> I was going to order 6 of these
> http://www.marvac.com/detail.aspx?ID=22298 and install them near
the
> coax-antenna connection. Is a RF choke _needed_ with the HB?
>
> Thanks
>

Ferrite beads are used on my G5RV -where the ladderline connects to
the coax. About 8 of them are used and the RG-8/X fits nicely
through them.

I've also heard others just making a coax choke balun by winding up
18-21 feet of coax on an 4-6" non-metal pipe/tube(as a form.

I checked the site that you listed above, and they cost $6 a Piece! -
holy cow!

73 de Mike

3185. 20/17/15/12m dimensions

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-27 04:58:57 UTC
From: Andy
Topic: 3185 Message: 3185

Hello all
I look for checked of dimensions of 4 bands antenna .
73 Andy SP7FRO

3186. Mike Traffie Looking for Buyer

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-27 14:46:03 UTC
From: Charlie Ross
Topic: 3186 Message: 3186

Just noticed this on the Traffie website... I don't see a mention of it on this group...

http://www.hexbeam.com/ttechdesk.shtml

--Charlie, NC1N
---
nc1n@...

[Non-text portions of this message have been removed]

3187. Re: [hex-beam] Mike Traffie Looking for Buyer

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-27 16:32:45 UTC
From: bur52@aol.com
Topic: 3186 Message: 3187

In a message dated 5/27/2006 12:28:55 P.M. Eastern Standard Time,
nc1n@... writes:

http://www.hexbeam.com/ttechdesk.shtml

Well..
Like anything else...everything has a price. Maybe Mike is gonna slow down a
little.
I wish him well.

Wonder what the price would be.....
k3jvb

[Non-text portions of this message have been removed]

3188. Re: HX-5Bi, 40m? Also, RF choke needed?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-27 19:02:10 UTC
From: Alan
Topic: 3182 Message: 3188

I've loaded my HX-5BI on 40 meters using the internal antenna tuner on my PROII and it works pretty well but doesn't seem to have any directionality. I find it quieter than my Carolina Windom and more sensitive so I use it on 40 instead of the Windom. I tried to load it up on 30 meters but the tuner can't bring it in. My guess is that a wider range external tuner could bring it in and similar results would be had. I've also loaded it up on 6 meters but again the directionality is iffy.

--- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@...> wrote:
>
> I am wondering if anyone out there who has the Traffie Hexbeam is able
> to get it on 30 or 40m with a tuner. If so, how is the performance,
> both RX and TX?
>
> I was going to order 6 of these
> http://www.marvac.com/detail.aspx?ID=22298 and install them near the
> coax-antenna connection. Is a RF choke _needed_ with the HB?
>
> Thanks
>

3189. Re: [hex-beam] Re: HX-5Bi, 40m? Also, RF choke needed?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-27 19:31:47 UTC
From: Darren G0TSM
Topic: 3182 Message: 3189

imagine you are beaming North on 6M, the Hex will have a null to the
North but two big lobes, one North West and one North East. I can
park my Hex to the East and put a reasonable signal into SM/OH & LA
and at the same time work Italy, great for contests!

73 Darren

At 19:02 27/05/2006, you wrote:
>I've loaded my HX-5BI on 40 meters using the internal antenna tuner on
>my PROII and it works pretty well but doesn't seem to have any
>directionality. I find it quieter than my Carolina Windom and more
>sensitive so I use it on 40 instead of the Windom. I tried to load it
>up on 30 meters but the tuner can't bring it in. My guess is that a
>wider range external tuner could bring it in and similar results would
>be had. I've also loaded it up on 6 meters but again the
>directionality is iffy.
>
>--- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@...> wrote:
> >
> > I am wondering if anyone out there who has the Traffie Hexbeam is able
> > to get it on 30 or 40m with a tuner. If so, how is the performance,
> > both RX and TX?
> >
> > I was going to order 6 of these
> >
> <http://www.marvac.com/detail.aspx?ID=22298>http://www.marvac.com/detail.aspx?ID=22298
> and install them near the
> > coax-antenna connection. Is a RF choke _needed_ with the HB?
> >
> > Thanks
> >
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><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ferrite+bead&c=4&s=78&.sig=FnsugybLK5zQ_ysmpJeBKQ>Hobby
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> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
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3190. Re: [hex-beam] Re: HX-5Bi, 40m? Also, RF choke needed?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-27 19:39:38 UTC
From: Duke - NA1A
Topic: 3182 Message: 3190

Interesting. I listened on my Caolina Windom 80 versus the HX5Bi on 40M. A signal strength of S9 on the HX5Bi would be 20dB over on the Windom.

73,
Duke - NA1A
Website: http://NA1A.US

-- "Alan" <alanadler@...> wrote:
I've loaded my HX-5BI on 40 meters using the internal antenna tuner on my PROII and it works pretty well but doesn't seem to have any directionality. I find it quieter than my Carolina Windom and more sensitive so I use it on 40 instead of the Windom. I tried to load it up on 30 meters but the tuner can't bring it in. My guess is that a wider range external tuner could bring it in and similar results would be had. I've also loaded it up on 6 meters but again the directionality is iffy.

--- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@...> wrote:
>
> I am wondering if anyone out there who has the Traffie Hexbeam is able
> to get it on 30 or 40m with a tuner. If so, how is the performance,
> both RX and TX?
>
> I was going to order 6 of these
> http://www.marvac.com/detail.aspx?ID=22298 and install them near the
> coax-antenna connection. Is a RF choke _needed_ with the HB?
>
> Thanks
>

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3191. Re: [hex-beam] Re: HX-5Bi, 40m? Also, RF choke needed?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-28 00:46:21 UTC
From: Mike Van Winkle
Topic: 3182 Message: 3191

sometimes I just gotta say something...In a nice
way..Ya know Duke, Its no surprise that an antenna
made for 20 and higher performs poorly when compared
with a gain antenna for 40....Of course if you
consitently are 6-8khz wide running SSB this could be
a difficult observation to make. LOL! 5-bander traffie
makes ia a good compromise antenna for the bands is
intended. It can be forced to work on other bands with
a good tuner. GOOD means not the wimpy ones found in
the all in one box computer assisted radios or is that
radio assisted computers..I digress. Anyway if ya want
40 meters reach into some of that money you wasted to
be wide on ssb and get with ol'Traffie on a new 7 band
hex-beam...If he can't build it maybe holger or I can
get you all fired up....AND IF YOU ARE CRAZY ENOUGH
AND HAVE THE CASH...AKA LOTSALOOT...We can put togther
a 11 band design that will include 60 meters...But
remember you could only run abt 20 watts on 60 and be
legal....YOU MUST PROVIDE THE ENGINNERING FOR THE
ROTOR!!!>>>LOL!
On the more serious side a choke balun will work fine
on the hex as will a bead balun...Just wind 10 turns
on the vertical mast, tape it up and have fun..W4HV
--- Duke - NA1A <na1a@...> wrote:

> Interesting. I listened on my Caolina Windom 80
> versus the HX5Bi on 40M. A signal strength of S9 on
> the HX5Bi would be 20dB over on the Windom.
>
> 73,
> Duke - NA1A
> Website: http://NA1A.US
>
> -- "Alan" <alanadler@...> wrote:
> I've loaded my HX-5BI on 40 meters using the
> internal antenna tuner on
> my PROII and it works pretty well but doesn't seem
> to have any
> directionality. I find it quieter than my Carolina
> Windom and more
> sensitive so I use it on 40 instead of the Windom.
> I tried to load it
> up on 30 meters but the tuner can't bring it in. My
> guess is that a
> wider range external tuner could bring it in and

> similar results would
> be had. I've also loaded it up on 6 meters but
> again the
> directionality is iffy.
>
> --- In hex-beam@yahoogroups.com, "kc0rdg"
> <kc0rdg@...> wrote:
> >
> > I am wondering if anyone out there who has the
> Traffie Hexbeam is able
> > to get it on 30 or 40m with a tuner. If so, how
> is the performance,
> > both RX and TX?
> >
> > I was going to order 6 of these
> > http://www.marvac.com/detail.aspx?ID=22298 and
> install them near the
> > coax-antenna connection. Is a RF choke _needed_
> with the HB?
> >
> > Thanks
> >
>
>
>
>
>
> <!-- |**|begin egp html banner|**| -->
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and
> craft supply Ferrite bead <!-- |**|end egp html
> banner|**| --><!-- |**|begin egp html banner|**| -->
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> [Non-text portions of this message have been
> removed]
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3192. Re: HX-5Bi, 40m? Also, RF choke needed?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-28 04:03:38 UTC
From: Alan
Topic: 3182 Message: 3192

My Carolina Windom is not at a very favorable height and probably isn't set up for maximum efficiency. My Hex Beam is higher up so that might be one of the reasons. I generally get about 2 S units better reception on the Hex Beam.

--- In hex-beam@yahoogroups.com, "Duke - NA1A" <na1a@...> wrote:
>
> Interesting. I listened on my Caolina Windom 80 versus the HX5Bi on 40M. A signal strength of S9 on the HX5Bi would be 20dB over on the Windom.
>
> 73,
> Duke - NA1A
> Website: http://NA1A.US
>
> -- "Alan" <alanadler@...> wrote:
> I've loaded my HX-5BI on 40 meters using the internal antenna tuner on
> my PROII and it works pretty well but doesn't seem to have any
> directionality. I find it quieter than my Carolina Windom and more
> sensitive so I use it on 40 instead of the Windom. I tried to load it
> up on 30 meters but the tuner can't bring it in. My guess is that a
> wider range external tuner could bring it in and similar results would
> be had. I've also loaded it up on 6 meters but again the
> directionality is iffy.
>
> --- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@> wrote:
> >
> > I am wondering if anyone out there who has the Traffie Hexbeam is able
> > to get it on 30 or 40m with a tuner. If so, how is the performance,
> > both RX and TX?
> >
> > I was going to order 6 of these
> > http://www.marvac.com/detail.aspx?ID=22298 and install them near the
> > coax-antenna connection. Is a RF choke _needed_ with the HB?
> >
> > Thanks
> >

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>
> <!-- |**|begin egp html banner|**| -->
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> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Ferrite bead <!-- |**|end egp html banner|**| --><!-- |**|begin egp
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Service.
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>
> <!-- |**|end egp html banner|**| -->
>
> [Non-text portions of this message have been removed]
>

3193. Off Topic: Wilson WR500 rotor

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-07 22:24:04 UTC
From: Ray Keefe
Topic: 3193 Message: 3193

Does anyone know where I can find the rotor end connector for a Wilson WR500 rotor. The control box uses a standard 8 pin male octal plug, while the rotor end uses a screw on 8 pin female plug. Similar to the Ampenhol mike connectors.

I have already tried to 2 rotor repair shops and nothing. The company that made the rotor went out of business in 1979 so no new parts are avail for it.

Thanks,

Ray
KC2GMN

_____
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3194. Re: [hex-beam] Off Topic: Wilson WR500 rotor

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-08 02:42:19 UTC
From: jerry farek
Topic: 3193 Message: 3194

Is it a standard Amphenol connector?

--- Ray Keefe <kc2gmn@...> wrote:

> Does anyone know where I can find the rotor end
> connector for a Wilson WR500 rotor. The control box
> uses a standard 8 pin male octal plug, while the
> rotor
> end uses a screw on 8 pin female plug. Similar to
> the
> Ampenhol mike connectors.
>
> I have already tried to 2 rotor repair shops and
> nothing. The company that made the rotor went out of
> business in 1979 so no new parts are avail for it.
>
> Thanks,
>
> Ray
> KC2GMN
>
> _____
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3195. feedline

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-08 17:41:23 UTC
From: Darren G0TSM
Topic: 3195 Message: 3195

On Traffie's Hexbeam, does anyone know what the impedance of the feed line between the elements is?.

The reason I ask is that I've built another hexbeam but have been playing around with the feedline between the elements. So far RG58 produces the best swr curves. On my current Hexbeam I use 10mm/2 pvc cable with 1mm insulation, Eznec show's this to be about 90-Ohms, is this correct as I can't find a feedline calculator program, anyone?...

73 Darren G0TSM

3196. Re: [hex-beam] feedline

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-08 23:12:38 UTC
From: Mike Van Winkle
Topic: 3195 Message: 3196

Darren, Don't regard that as feedline...Regard is as a part of the antenna length and you will discover something! This antenna ia a parallel dipole with a reflector...SURPRISE!!..all those fancy calculations are not needed if you take thia into account...Also the rg-58 coax is so lossy that the reflected probably isn't getting back to your meter to be measured.....Mike W4HV

--- Darren G0TSM <hexbeam@...> wrote:

> On Traffie's Hexbeam, does anyone know what the
> impedance of the feed
> line between the elements is?.
>
> The reason I ask is that I've built another hexbeam
> but have been
> playing around with the feedline between the
> elements. So far RG58
> produces the best swr curves. On my current Hexbeam
> I use 10mm/2 pvc
> cable with 1mm insulation, Eznec show's this to be
> about 90-Ohms, is
> this correct as I can't find a feedline calculator
> program, anyone?...
>
> 73 Darren G0TSM
>
>
>
>

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3197. Re: [hex-beam] feedline

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-09 02:18:11 UTC
From: bur52@aol.com
Topic: 3195 Message: 3197

Hi
Do without the Rg-58 before you try and tune...way way to lossy
JohnB

[Non-text portions of this message have been removed]

3198. Re: [hex-beam] feedline

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-09 03:23:56 UTC
From: dave@zievid.com
Topic: 3195 Message: 3198

Hi Darren -

FWIW, I experimented with 3 different wire feedlines on my homebrew hexbeam (http://www.zievid.com/W6OT/Hex/Beam.htm) before trying coax and solving all my SWR problems. With wire, I just couldn't get a good dip on all 5 bands, especially those that were far away from the main coax feed point. I think there was too much interaction or radiation on those short feed sections. Other people have had success with wire, but I couldn't get it to work.

If you can get a short section of higher quality coax, I'd use that. Otherwise the RG58 will do OK, but you're always going to be limited in the power you can use. Some RG8, RG213 or other larger, low loss coax would give you the ability to apply more power some day in the future.

As for the power losses others have suggested, I personally don't think that's an issue. Given that your main feedline must see something near 50 ohms at the antenna to be resonant (and have a reasonable SWR), there isn't a really bad mismatch between that point and the wire elements of the band you're using. Even if there is a little mismatch, we're talking about a few feet here - not enough for a significant loss. You can calculate how much you'd loose with a calculator like the one at http://www.ocarc.ca/coax.htm

For your main feedline, however, I'd suggest something other than RG58 if you can swing it. Using that same calculator, you can get an idea of the losses you'd have between your radio in the shack and the antenna itself. The money spent here is usually a good investment.

For example, 3 feet of RG58 with 3:1 SWR at 28mhz has a loss of 0.101 db - 100 watts at the output end of the main coax translates to 97.7 watts at the end of the short 3' feed stub. That's not anything you'd notice.

In that same situation, however, let's say your rig is putting out 100 watts into a RG58 coax run going 100 feet to the antenna. It would burn up about 48 watts in loss, so half your power is spent heating the coax. In the same situation, RG-213 has about half the loss. Keeping the SWR at the antenna end down, and using the shortest reasonable coax run, will help you put the most power into the ether.

BTW, if you do go with coax, be sure to weather-proof it well. Any moisture leaking into it will cause it to deteriorate and then you definitely can have more problems.

Hope I'm making sense,

73,
- Dave
W6OT

> On Traffie's Hexbeam, does anyone know what the impedance of the feed
> line between the elements is?.
>
> The reason I ask is that I've built another hexbeam but have been
> playing around with the feedline between the elements. So far RG58
> produces the best swr curves. On my current Hexbeam I use 10mm/2 pvc
> cable with 1mm insulation, Eznec show's this to be about 90-Ohms, is
> this correct as I can't find a feedline calculator program, anyone?...
>
> 73 Darren G0TSM
>
>
>
>
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>
>
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>

3199. Re: feedline

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-09 07:23:49 UTC
From: dl7io
Topic: 3195 Message: 3199

Hello Darren,
90 Ohms are much to high! I call this a low impedance line.
You can reduce Z by reducing the distance between the 2 wires, or
increasing the wire diameter. The distance can be significant reduced
by cuting of the pvc-insulation of one of the wires. Than you have
other values for the dielectric material and a lower distance.
I have measured the Z of the "low impedance line" for feeding the
elements and it should be around 50 Ohms. This may be the reason why
you have better SWR curves with coax... 5-10 Ohms difference are not
critical because of the very small pieces of wire between the elements.

Nevertheless the feeding system is part of the radiators regarding the
electrical length! Therefore I would not suggest to use coax. A good
SWR has nothing to do with antenna gain! One would have to simulate the
antenna again with a coax feeding. It is easy to lose 1-2 dB and if you
have only 4 dB gain over a dipole...than we are talking about 50%.
On the other hand I guess the handling of the coax pieces is more
difficult than using a copper wire.

5-6 years ago I also made some tests with coax feeding but I came back
to the wire. There were no advantages using coax and a wire feedline is
much easier to build.
73 Holger

--- In hex-beam@yahoogroups.com, Darren G0TSM <hexbeam@...> wrote:
>
> On Traffie's Hexbeam, does anyone know what the impedance of the feed
> line between the elements is?.
>
> The reason I ask is that I've built another hexbeam but have been
> playing around with the feedline between the elements. So far RG58
> produces the best swr curves. On my current Hexbeam I use 10mm/2 pvc
> cable with 1mm insulation, Eznec show's this to be about 90-Ohms, is
> this correct as I can't find a feedline calculator program, anyone?...
>
> 73 Darren G0TSM
>

3200. Re: [hex-beam] Off Topic: Wilson WR500 rotor

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-08 18:55:05 UTC
From: Richard Broughton
Topic: 3193 Message: 3200

Ray,

Try Norms Rotor repair in Birmingham, Al. Here is
their website

http://www.rotorservice.com/

73's

Rich, NE4M

--- Ray Keefe <kc2gmn@...> wrote:

> Does anyone know where I can find the rotor end
> connector for a Wilson WR500 rotor. The control box
> uses a standard 8 pin male octal plug, while the
> rotor
> end uses a screw on 8 pin female plug. Similar to
> the
> Ampenhol mike connectors.
>
> I have already tried to 2 rotor repair shops and
> nothing. The company that made the rotor went out of
> business in 1979 so no new parts are avail for it.
>
> Thanks,
>
> Ray
> KC2GMN
>
> _____
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3201. RE: [hex-beam] Re: HX-5Bi, 40m? Also, RF choke needed?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-05-27 17:04:21 UTC
From: David H. Walker
Topic: 3182 Message: 3201

I us my 5el HexBeam on 30M. Works ok. I use a big XMATCH tuner,HI.
David

73,K0COP

David H. Walker
Aiken, SC
k0cop@...
Virus scan by BitDefender
-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf
Of ve3mic
Sent: Thursday, May 25, 2006 20:37
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: HX-5Bi, 40m? Also, RF choke needed?

--- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@...> wrote:
>
> I am wondering if anyone out there who has the Traffie Hexbeam is
able
> to get it on 30 or 40m with a tuner. If so, how is the
performance,
> both RX and TX?
>
>

--
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http://www.OnlyMyEmail.com/reportSpam?Id=MTY1ODI6MTI4Nzg3NzUxOmswY29wQG9ubHl
teWVtYWlsLmNvbQ%3D%3D

3202. Re: [hex-beam] Off Topic: Wilson WR500 rotor

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-12 02:16:36 UTC
From: Ray Keefe
Topic: 3193 Message: 3202

Jerry,

The Amphenol 4 pin mike connectors that were used on some cb radios and Motorola control heads was the best way I could describe it, these are 3/4" in diamter and came in 4 or 5 pins with a keyed screw on shell. The radio usually had the female and the mike had the male.

The one on the rotor is 1" in diamter, keyed like the mike plugs, male pins, 7 in a circle and 1 in the middle. So the mate is a female socket inside the screw on shell.

There are no identifying manufacturers part numbers on it, that would make this far too easy.

I figured someone out there may have had one of the rotors and perhaps has the end kicking around but not the rotor.

Ray
KC2GMN

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3203. End Spacing Paradox

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-15 11:39:27 UTC
From: rkbower
Topic: 3203 Message: 3203

I'm in the middle of a project to build a 3-band Hex Beam (20M-17M-15M).

Here's where I stand in the project:

I have the antenna mounted on a short pole in my back yard so the 20M elements are no more than 6 feet above ground. I am using an MFJ SWR Analyzer on loan from a co-worker to check for resonance and SWR.

I have trimmed each director and reflector to give me resonance where I want it to be -- close to the middle of each band. However, the analyzer initially showed high SWR readings -- Minimum of 2:1 on 20M, for example.

Through experimentation, I have found that decreasing the director and reflector end spacing (moving them closer together) lowers the SWR. In fact, the closer together I move the ends, the lower the SWR reads.

At this point, I have resonance on each band where I want it with SWR readings ranging from 1.2:1 to 1.7:1 within each band.

However, here's the paradox... To get these readings, I have moved the end spacing much closer than the formulas would project. On 15M, for example, the ends are within 3 inches of each other. The 20M element ends are probably within 6 inches of each other. I can provide more precise measurements, if necessary.

So... should I leave the antenna as-is when I put it on a mast or is it possible that some type of ground effect an causing this anomoly ?

Any advice or similar observations would be greatly appreciated.

Ron Bower, AC2C
Ellicott City, MD, USA

3204. SIngle Point Feed Line

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-16 19:37:59 UTC
From: douglis88
Topic: 3204 Message: 3204

I am planning to build a 3 band hex beam 10/15/20. I already have the fishing poles:) There seems to be a lot of discussion about feed lines for connecting the multiband elements downward or upward along the center post. I wonder if I should simply terminate all my elements at the same point (15m), so my hex beam would be like a multi-band dipole where all elements are fed at the same point. Any comments?
..Doug VE3EFC

3205. Re: SIngle Point Feed Line

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-19 01:28:45 UTC
From: Ralph Harvey
Topic: 3204 Message: 3205

Hello Friends,
I also am planing and gathering the material for a 5 Band Hex, and find that this is a very interesting point. It may well be worth a try, although much professional effort has gone into the accepted model (especially the end spacing on the elements, etc.). Has anyone tried this before?
73's
WA2OGN
Ralph

Yahoo! Messenger with Voice. PC-to-Phone calls for ridiculously low rates.

[Non-text portions of this message have been removed]

3206. 5 band Hex Beam Project

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-18 17:19:19 UTC
From: w0tmm
Topic: 3206 Message: 3206

I have finally got all the pieces together for my Hexbeam Project.

I have run into two problems so far.

My spreaders are fiberglass from Max-Gain. 4' of 3/4" O.D. with 8' of 1/2" O.D. slid 6 inches into the 3/4" piece for a total length of 11' 6". I had a hard time getting the 20 meter wire level. No matter what I tried with the 41" long center post I could not get the wire level at 113" from the center post. I made another center post 47" long and the 20 meter wire is level now.

Once I added the 17 meter and 15 meter wires my spreaders were pulled out of shape, they were no longer perfectly striaght up. So I now have to go back and try to straighten the spreaders up by adding support lines. I had the support lines run from spreader tip to spreader tip.

I guess I need to add more support lines between the spreaders at the 17 and 15 meter level.

Any suggestions from those who have had similar problems with the hex bean?

John

3207. Re: 5 band Hex Beam Project

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-19 13:34:26 UTC
From: Colin
Topic: 3206 Message: 3207

Hi John
The wide variety of materials used for spreaders will alter the post length somewhat.
Too flexible and they tend to lift upwards at the perimeter instead of bending from the base.
As you add wires they may bend in "S" shapes and require additional support lines.
You will have a fine balancing act to manage..if one of the inner support lines is too tight it will allow the outer ones to sag.

Stick with it and you`ll get there in the end, the 60 mile hike around the antenna isn`t too much fun though :)

I`m surprised no-one has built a hexbeam with straight rigid spreaders at 30 degrees, it would need a 2m post (6`6").

The turning circle of the beam would stay the same and the element positions are standardised due to the no-bend spreaders.
6 further diagonal struts would be added between centerpost and spreaders for rigidity.

As a bonus, the entire hexbeam could then be folded up by pulling the speader baseplate down the mast (much like a rotary clothes airer)
It would be much easier to handle a folded hexbeam at the mast top than the unweildly fully deployed one.

Regards Colin
M0XBM

--- In hex-beam@yahoogroups.com, "w0tmm" <w0tmm@...> wrote:
>
> I have finally got all the pieces together for my Hexbeam Project.
>
> I have run into two problems so far.
>
> My spreaders are fiberglass from Max-Gain. 4' of 3/4" O.D. with 8' of
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> I tried with the 41" long center post I could not get the wire level
> at 113" from the center post. I made another center post 47" long and
> the 20 meter wire is level now.
>

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> out of shape, they were no longer perfectly striaght up. So I now
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> to go back and try to straighten the spreaders up by adding support
> lines. I had the support lines run from spreader tip to spreader
tip.
>
> I guess I need to add more support lines between the spreaders at
the
> 17 and 15 meter level.
>
> Any suggestions from those who have had similar problems with the
hex
> bean?
>
> John
>

3208. Re: [hex-beam] Re: 5 band Hex Beam Project

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-19 15:52:49 UTC
From: Leo Shoemaker
Topic: 3206 Message: 3208

Colin:

Interesting idea!

I am guessing that any spreaders rigid enough to remain straight with the tension of the wires being pulled even moderately taut, would also add a good bit of weight, especially if the other "diagonal struts" are added.

Of course, a monobander hexbeam could definitely be built with rigid spreaders and no "diagonal struts" at all.

73,

Leo K4KIO

Colin <djcol1@...> wrote: Hi John
The wide variety of materials used for spreaders will alter the post length somewhat.
Too flexible and they tend to lift upwards at the perimeter instead of bending from the base.
As you add wires they may bend in "S" shapes and require additional support lines.
You will have a fine balancing act to manage..if one of the inner support lines is too tight it will allow the outer ones to sag.

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6 further diagonal struts would be added between centerpost and spreaders for rigidity.

As a bonus, the entire hexbeam could then be folded up by pulling the speader baseplate down the mast (much like a rotary clothes airer)
It would be much easier to handle a folded hexbeam at the mast top than the unweildly fully deployed one.

Regards Colin
M0XBM

--- In hex-beam@yahoogroups.com, "w0tmm" <w0tmm@...> wrote:
>
> I have finally got all the pieces together for my Hexbeam Project.
>

> I have run into two problems so far.
>
> My spreaders are fiberglass from Max-Gain. 4' of 3/4" O.D. with 8'
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> 1/2" O.D. slid 6 inches into the 3/4" piece for a total length of
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> 6". I had a hard time getting the 20 meter wire level. No matter
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> out of shape, they were no longer perfectly striaght up. So I now
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> to go back and try to straighten the spreaders up by adding support
> lines. I had the support lines run from spreader tip to spreader
tip.
>
> I guess I need to add more support lines between the spreaders at
the
> 17 and 15 meter level.
>
> Any suggestions from those who have had similar problems with the
hex
> bean?
>
> John
>

[Non-text portions of this message have been removed]

3209. Re: 5 band Hex Beam Project

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-19 17:13:06 UTC
From: Colin
Topic: 3206 Message: 3209

Hi Leo,
It`s probably not better than the usual way to build i agree but it may be worth thinking about.
It would add weight(a few kgs perhaps) but the antenna should still be very light compared to other beams.
With the extra post length below the 10m element you could easily add extra bands (6m/4m perhaps).It adds to overall height and further isolates the elements from the metallic mast/ spreader baseplate.

The spreaders are the most expensive part of the antenna really and the bend is important to the element spacing on the post.

If any type of rigid spreader could be used it would be much cheaper and probably easier to build.
The braces could be perfectly horizontal instead of diagonal allowing for even greater drop when folding the antenna. Everything would use pivots instead of rigid fixings.
The elements (and gravity) would be the support for the spreaders,the braces simply prevent them from lifting (and dropping in the event of a wire failure).

They could also reduce the risk of the antenna inverting in the event of a support line breaking..especially that long top one.

Having the option to fold the antenna might be very useful to some for stealth, portability or perhaps getting the hex on a wall mounted mast in a small garden. The coax would stay connected as just the base of the spreaders move.

The spacing of the bands on the post is somewhat different, but according to the model it doesn`t seem to affect the performance much.
The element lengths/tip spacing may need adjustment, but it would take a more competent modeller than me to confirm that :)

Regards Colin
M0XBM

--- In hex-beam@yahoogroups.com, Leo Shoemaker <k4kio@...> wrote:
>
> Colin:
>
> Interesting idea!
>
> I am guessing that any spreaders rigid enough to remain straight with the tension of the wires being pulled even moderately taut, would also add a good bit of weight, especially if the

other "diagonal struts" are added.
>
> Of course, a monobander hexbeam could definitely be built with
rigid spreaders and no "diagonal struts" at all.
>
> 73,
>
> Leo K4KIO
>
> Colin <djcol1@...> wrote: Hi John
> The wide variety of materials used for spreaders will alter the
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> length somewhat.
> Too flexible and they tend to lift upwards at the perimeter
instead
> of bending from the base.
> As you add wires they may bend in "S" shapes and require
additional
> support lines.
> You will have a fine balancing act to manage..if one of the inner
> support lines is too tight it will allow the outer ones to sag.
>
> Stick with it and you`ll get there in the end, the 60 mile hike
> around the antenna isn`t too much fun though :)
>
> I`m surprised no-one has built a hexbeam with straight rigid
> spreaders at 30 degrees, it would need a 2m post (6`6").
>
> The turning circle of the beam would stay the same and the element
> positions are standardised due to the no-bend spreaders.
> 6 further diagonal struts would be added between centerpost and
> spreaders for rigidity.
>
> As a bonus, the entire hexbeam could then be folded up by pulling
the
> speader baseplate down the mast (much like a rotary clothes airer)
> It would be much easier to handle a folded hexbeam at the mast top
> than the unweildly fully deployed one.
>
> Regards Colin
> M0XBM
>
>
> --- In hex-beam@yahoogroups.com, "w0tmm" <w0tmm@> wrote:
> >
> > I have finally got all the pieces together for my Hexbeam
Project.
> >
> > I have run into two problems so far.
> >

> > My spreaders are fiberglass from Max-Gain. 4' of 3/4" O.D. with
8'
> of
> > 1/2" O.D. slid 6 inches into the 3/4" piece for a total length
of
> 11'
> > 6". I had a hard time getting the 20 meter wire level. No matter
> what
> > I tried with the 41" long center post I could not get the wire
level
> > at 113" from the center post. I made another center post 47"
long
> and
> > the 20 meter wire is level now.
> >
> > Once I added the 17 meter and 15 meter wires my spreaders were
> pulled
> > out of shape, they were no longer perfectly striaght up. So I
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> have
> > to go back and try to straighten the spreaders up by adding
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> > lines. I had the support lines run from spreader tip to spreader
> tip.
> >
> > I guess I need to add more support lines between the spreaders
at
> the
> > 17 and 15 meter level.
> >
> > Any suggestions from those who have had similar problems with
the
> hex
> > bean?
> >
> > John
> >
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

3210. Re: 5 band Hex Beam Project

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-20 00:20:01 UTC
From: vk2nu@bigpond.net.au
Topic: 3206 Message: 3210

John,

With the few Hexbeams I've made, I've always found getting the correct tension in the spreaders and wires, and getting the wires to be horizontal is the most difficult task. Like yourself I used Maxgain spreaders in my last Hex, and found these to be too rigid, and don't give quite enough flex !! They are great quality though !!

On my first Hex, I initially held all the spreaders in place by tying the tips to the centre post with poly rope (a little bit shorter than the required length - approx 9' from memory). I then wired up all the elements and made adjustments so they were reasonably tight and level, and then removed the ropes. This has the effect of allowing the spreaders to spring out a little, and takes up the slack in the elements. This worked well with my doweling elements, but not sure if it will work with the more rigid maxgain elements.

Good luck

David, VK2NU

5 band Hex Beam Project
Posted by: "w0tmm" w0tmm@... w0tmm
Mon Jun 19, 2006 5:20 am (PST)
I have finally got all the pieces together for my Hexbeam Project.

I have run into two problems so far.

My spreaders are fiberglass from Max-Gain. 4' of 3/4" O.D. with 8' of 1/2" O.D. slid 6 inches into the 3/4" piece for a total length of 11' 6". I had a hard time getting the 20 meter wire level. No matter what I tried with the 41" long center post I could not get the wire level at 113" from the center post. I made another center post 47" long and the 20 meter wire is level now.

Once I added the 17 meter and 15 meter wires my spreaders were pulled out of shape, they were no longer perfectly striaght up. So I now have to go back and try to straighten the spreaders up by adding support lines. I had the support lines run from spreader tip to spreader tip.

I guess I need to add more support lines between the spreaders at the 17 and 15 meter level.

Any suggestions from those who have had similar problems with the hex bean?

John

---- hex-beam@yahoogroups.com wrote:

3211. Re: [hex-beam] Re: 5 band Hex Beam Project

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-20 01:24:24 UTC
From: JohnDeb
Topic: 3206 Message: 3211

anopther source for spreaders is mcmaster.com
they have fiberglass rods in almost any size.
you might try the 3/8 size it flexes enough to work around
slight corners I thought of it on a chimney brush.
----- Original Message -----
From: vk2nu@...
To: No Reply
Cc: hex-beam@yahoogroups.com
Sent: Monday, June 19, 2006 8:20 PM
Subject: [hex-beam] Re: 5 band Hex Beam Project

John,

With the few Hexbeams I've made, I've always found getting the correct tension in the spreaders and wires, and getting the wires to be horizontal is the most difficult task. Like yourself I used Maxgain spreaders in my last Hex, and found these to be too rigid, and don't give quite enough flex !! They are great quality though !!

On my first Hex, I initially held all the spreaders in place by tying the tips to the centre post with poly rope (a little bit shorter than the required length - approx 9' from memory). I then wired up all the elements and made adjustments so they were reasonably tight and level, and then removed the ropes. This has the effect of allowing the spreaders to spring out a little, and takes up the slack in the elements. This worked well with my doweling elements, but not sure if it will work with the more rigid maxgain elements.

Good luck

David, VK2NU

5 band Hex Beam Project
Posted by: "w0tmm" w0tmm@... w0tmm
Mon Jun 19, 2006 5:20 am (PST)
I have finally got all the pieces together for my Hexbeam Project.

I have run into two problems so far.

My spreaders are fiberglass from Max-Gain. 4' of 3/4" O.D. with 8' of 1/2" O.D. slid 6 inches into the 3/4" piece for a total length of 11' 6". I had a hard time getting the 20 meter wire level. No matter what I tried with the 41" long center post I could not get the wire level at 113" from the center post. I made another center post 47" long and the 20 meter wire is level now.

Once I added the 17 meter and 15 meter wires my spreaders were pulled out of shape, they were no longer perfectly striaght up. So I now have to go back and try to straighten the spreaders up by adding support lines. I had the support lines run from spreader tip to spreader tip.

I guess I need to add more support lines between the spreaders at the 17 and 15 meter level.

Any suggestions from those who have had similar problems with the hex bean?

John

---- hex-beam@yahoogroups.com wrote:

[Non-text portions of this message have been removed]

3212. Re: 5 band Hex Beam Project

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-28 12:02:57 UTC
From: Colin
Topic: 3206 Message: 3212

Hi John,

I think 3/8 (10mm?) diameter would be too flexible for a 5 band hex.
Ideally the spreaders should be under constant tension so they can`t
move upwards or downwards.
My observation is that, apart from the likelyhood of the spreaders
bending into the usual "S" shapes, the hex will attempt rebalance
itself in windy conditions by shifting the wires.
If the wind hits the hex on one side, very flexible spreaders will be
pushed upwards. The speaders on the leeward side will tend to be pushed
downwards by gravity and the extra wire lengths given up from the
windward side of the hex.
If the spreaders don`t have enough "spring" to return to the starting
positions (with enough extra "ummph" to overcome the wires resistance)
the elements will remain where the wind blew them.

You lock the wires so they can`t slide, but gusty wind could eventually
break the element due to the tugging as the spreader bounces up and
down.
Adding support lines from the centerpost to spreader tips won`t prevent
this type of movement with a very flexible spreader.

73
Colin m0xbm

--- In hex-beam@yahoogroups.com, "JohnDeb" <cordwood@...> wrote:
>
> anopther source for spreaders is mcmaster.com
> they have fiberglass rods in almost any size.
> you might try the 3/8 size it flexes enough to work around
> slight corners I thought of it on a chimney brush.

3213. Re: [hex-beam] Re: 5 band Hex Beam Project

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-06-19 20:03:36 UTC
From: ray bunce
Topic: 3206 Message: 3213

Hello all,

I've got a 6M hex tuned to 52.0. I used CPVC for the spreaders and found that to be a pretty good and economical choice. Regular PVC is a bit stiff and Gold line is way too whippy. When building a hex -- measure measure measure. Take time when you wire it, too. And make yourself an RF choke with a few turns of coax. I think they work pretty well -- mine does anyway. Don't know about a multibander; personally I'd probably do no more than a couple of bands (just my preference). 73 and good antenna building -- Ray KE5ICG

--- Leo Shoemaker <k4kio@...> wrote:

> Colin:
>
> Interesting idea!
>
> I am guessing that any spreaders rigid enough to
> remain straight with the tension of the wires being
> pulled even moderately taut, would also add a good
> bit of weight, especially if the other "diagonal
> struts" are added.
>
> Of course, a monobander hexbeam could definitely be
> built with rigid spreaders and no "diagonal struts"
> at all.
>
> 73,
>
> Leo K4KIO
>
> Colin <djcol1@...> wrote:
> Hi John
> The wide variety of materials used for spreaders
> will alter the post
> length somewhat.
> Too flexible and they tend to lift upwards at the
> perimeter instead
> of bending from the base.
> As you add wires they may bend in "S" shapes and
> require additional
> support lines.
> You will have a fine balancing act to manage..if

> one of the inner
> support lines is too tight it will allow the outer
> ones to sag.
>
> Stick with it and you`ll get there in the end, the
> 60 mile hike
> around the antenna isn`t too much fun though :)
>
> I`m surprised no-one has built a hexbeam with
> straight rigid
> spreaders at 30 degrees, it would need a 2m post
> (6`6").
>
> The turning circle of the beam would stay the same
> and the element
> positions are standardised due to the no-bend
> spreaders.
> 6 further diagonal struts would be added between
> centerpost and
> spreaders for rigidity.
>
> As a bonus, the entire hexbeam could then be folded
> up by pulling the
> speader baseplate down the mast (much like a rotary
> clothes airer)
> It would be much easier to handle a folded hexbeam
> at the mast top
> than the unweildly fully deployed one.
>
> Regards Colin
> M0XBM
>
>
> --- In hex-beam@yahoogroups.com, "w0tmm"
> <w0tmm@...> wrote:
> >
> > I have finally got all the pieces together for my
> Hexbeam Project.
> >
> > I have run into two problems so far.
> >
> > My spreaders are fiberglass from Max-Gain. 4' of
> 3/4" O.D. with 8'
> of
> > 1/2" O.D. slid 6 inches into the 3/4" piece for a
> total length of
> 11'
> > 6". I had a hard time getting the 20 meter wire
> level. No matter
> what

> > I tried with the 41" long center post I could not
> get the wire level
> > at 113" from the center post. I made another
> center post 47" long
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> > the 20 meter wire is level now.
> >
> > Once I added the 17 meter and 15 meter wires my
> spreaders were
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> > out of shape, they were no longer perfectly
> striaght up. So I now
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> by adding support
> > lines. I had the support lines run from spreader
> tip to spreader
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> >
> > I guess I need to add more support lines between
> the spreaders at
> the
> > 17 and 15 meter level.
> >
> > Any suggestions from those who have had similar
> problems with the
> hex
> > bean?
> >
> > John
> >
>
>
>
>
>
>
> [Non-text portions of this message have been
> removed]
>
>

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http://mail.yahoo.com

3214. Re: End Spacing Paradox

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-05 14:45:06 UTC
From: rkbower
Topic: 3203 Message: 3214

Reference my message #3203 posted on 16 June...

I'm getting ready to put the antenna in the air within the next few days.

This Group seems to hold most of the knowledge base regarding Hex Beam antennas. Does anyone have any last minute advice as to what I should do regarding the end spacing ?

Thanks for any and all responses.

Ron Bower
AC2C

3215. Re: [hex-beam] Re: End Spacing Paradox

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-05 15:24:50 UTC
From: Harold Burton
Topic: 3203 Message: 3215

----- Original Message -----
From: "rkbower" <ronbower@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, July 05, 2006 9:45 AM
Subject: [hex-beam] Re: End Spacing Paradox

> Reference my message #3203 posted on 16 June...
>
> I'm getting ready to put the antenna in the air within the next few
> days.
>
> This Group seems to hold most of the knowledge base regarding Hex Beam
> antennas. Does anyone have any last minute advice as to what I should
> do regarding the end spacing ?
>
> Thanks for any and all responses.
>
> Ron Bower
> AC2C
>
>
Here in Ardmore, OK 2 members of the local Ham Club have recently built
20 meter monoband Hexbeams. I helped build the first one and we just
spaced the ends of the elements evenly(9 3/4" spacing was just divided
about 4 7/8" either side of the center spreader). The antenna worked
well for the user. Later I built one of my own and utilized the complex
formulas (triangle sides) to locate the element ends. If there's any
difference at all between the two antennas it may be the simpler method
worked best. It may also be a case of the total
shack gestalt being better with the first one. Both appear to work OK.
You might want to consult W1GQL's Hexbeam website at this URL.....
http://midcoast.com/~w1gql/hex/buildyour.htm
We used the element info from that site to build both our Hexbeams.

Harold
KD5SAK

3216. Re: [hex-beam] Re: End Spacing Paradox

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-06 01:41:39 UTC
From: Mike Van Winkle
Topic: 3203 Message: 3216

Ron,
With all the guru's here you probably realize that
this is a high class bent fan dipole and
reflector...End spacing is like trimming a dipole
.....DONT TRIM THE REFLECTOR!!!...(Trade
secret..don't tell!!!)if you measure from the point
that you transition from coax on the feed system it
is very very close to dipole measurements on the
driven side...But don't tell!!!..LOL!!!Good Luck..no
two designs are exactly alike and all need minor
adjustments unless you are the luckiest guy
around..!!!

--- rkbower <ronbower@...> wrote:

> Reference my message #3203 posted on 16 June...
>
> I'm getting ready to put the antenna in the air
> within the next few
> days.
>
> This Group seems to hold most of the knowledge base
> regarding Hex Beam
> antennas. Does anyone have any last minute advice
> as to what I should
> do regarding the end spacing ?
>
> Thanks for any and all responses.
>
> Ron Bower
> AC2C
>
>
>
>

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3217. Re: End Spacing Paradox

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-06 10:03:50 UTC
From: dl7io
Topic: 3203 Message: 3217

Hello Ron,
congrats to your nice project.

Let me explain something for the understanding of the antenna.
There is a big difference between antenna gain and a good SWR!
The reflector length is determining the antenna gain. The DE (driven element)length is mainly important for the SWR. The end isolators are more influencing the SWR but also the gain.

The best gain is far away from the best SWR and also not equal with the best F/B.

The best results for a max. gain optimation you would get with a 25 Ohm design. This would be no problem for a monoband version if you feed via a quarter wave coax stub (37 Ohm or 2 x 75 Ohm coax in parallel). With multiband versions this is a bit harder and so we made designs for direct 50 Ohm feeding.

Depending on the location of the feeding point (top or bottom) the DE lengths vary. This can be seen if you compare the relation of the element lengths for reflector and DE in multiband design.

With cutting and trimming the elements you will only know that your antenna has a good SWR. But you have no idea how about the gain after all. As the gain is the feature that is the most difficult one to measure you have to model your antenna to find out how it will work.

So nobody can tell you anything regarding your final design but I guess that you will be far away from max. gain.

The best gain is in the cw portion of the band where in my designs the SWR is close to 1:2. Here you have about 4 dB over a dipole which makes an remarkable step. Over 300-400 kHz bandwith you lose about 2 dB gain. The SWR is much better here but the gain is diveded by 2 compared to a dipole.

So my suggestion is: Make an optimization based on a computer model. Build this model. The difference between model and reality should be very small or with your model is something wrong. If you are close to your model and want to tune the antenna a bit, than keep all the relations between the wire and isolator dimensions as they are.

73 Holger

PS. I will be DQ2006D for a week starting from Saturday

3218. Re: End Spacing Paradox

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-06 19:10:29 UTC
From: rkbower
Topic: 3203 Message: 3218

Holger --

Thank you for the quick reply. I only wish that I had the mastery of antenna theory that you and many others have.

Perhaps your answer is imbedded and I'm just too think to see it, so please excuse me if I'm being too dense. So, here goes...

In your opinion, do you think I am better off to stick to the end spacing as determined through computation or should I stick to the end spacing that gives the lower SWR readings ?

Thank you,

Ron, AC2C

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@...> wrote:
>
> Hello Ron,
> congrats to your nice project.
>
> Let me explain something for the understanding of the antenna.
> There is a big difference between antenna gain and a good SWR!
> The reflector length is determining the antenna gain. The DE
(driven
> element)length is mainly important for the SWR. The end isolators
are
> more influencing the SWR but also the gain.
>
> The best gain is far away from the best SWR and also not equal with
> the best F/B.
>
> The best results for a max. gain optimation you would get with a 25
> Ohm design. This would be no problem for a monoband version if you
> feed via a quarter wave coax stub (37 Ohm or 2 x 75 Ohm coax in
> parallel). With multiband versions this is a bit harder and so we
> made designs for direct 50 Ohm feeding.
>
> Depending on the location of the feeding point (top or bottom) the
DE
> lengths vary. This can be seen if you compare the relation of the
> element lengths for reflector and DE in multiband design.
>
> With cutting and trimming the elements you will only know that your
> antenna has a good SWR. But you have no idea how about the gain
after

> all. As the gain is the feature that is the most difficult one to
> measure you have to model your antenna to find out how it will work.
>
> So nobody can tell you anything regarding your final design but I
> guess that you will be far away from max. gain.
>
>
> The best gain is in the cw portion of the band where in my designs
> the SWR is close to 1:2. Here you have about 4 dB over a dipole
which
> makes an remarkable step. Over 300-400 kHz bandwith you lose about
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> dB gain. The SWR is much better here but the gain is diveded by 2
> compared to a dipole.
>
> So my suggestion is: Make an optimization based on a computer
model.
> Build this model. The difference between model and reality should
be
> very small or with your model is something wrong. If you are close
to
> your model and want to tune the antenna a bit, than keep all the
> relations between the wire and isolator dimensions as they are.
>
> 73 Holger
>
> PS. I will be DQ2006D for a week starting from Saturday
>

3219. Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-06 20:59:55 UTC
From: ion_moldovan
Topic: 3219 Message: 3219

I am a big fan of the Hex Beam. I have built a 5 band hex beam and I really like it. I am currently in the developing stages of a hex beam that is 80 percent preassembled. So far it looks that I would be able to sell it for under 500 dollars. All the wiring will be allready attached to the center pole and the fiberglass poles, that in turn hinge on the center hub. For ease of shipping the antenna will ship with the fiberglass poles collapsed and hinged up. All you have to do is strectch the telescoping poles, hinge them down and lock them in, and then lock in the wires along the poles in peselected locations. I imagine that total assembly time would be about 1 hour, maybe less. All the connections come allready sodered for long life. This will also work very well for a portable hex beam for the Field Day.
This is what I imagined so far... :)
This is just a survey to see level of interest that there is out there for something like this. Please let me know what you guys think.
Any comments are welcomed.
Thank you...

Ion Moldovan
KC8CDQ

3220. Re: [hex-beam] Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-07 11:38:08 UTC
From: bur52@aol.com
Topic: 3219 Message: 3220

It would be a winner
...add 6 meters, and it will have an edge, in addition to price.
IMHO
73
k3jvb

[Non-text portions of this message have been removed]

3221. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-07 16:02:18 UTC
From: Dennis
Topic: 3219 Message: 3221

If the quality and performance are there, sign me up.

73, Dennis W5UV

--- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@...>
wrote:
>
> I am a big fan of the Hex Beam. I have built a 5 band hex beam and
> I really like it. I am currently in the developing stages of a hex
> beam that is 80 percent preassembled. So far it looks that I would
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> able to sell it for under 500 dollars. All the wiring will be
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> in turn hinge on the center hub. For ease of shipping the antenna
> will ship with the fiberglass poles collapsed and hinged up. All
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> have to do is strectch the telescoping poles, hinge them down and
> lock them in, and then lock in the wires along the poles in
> peselected locations. I imagine that total assembly time would be
> about 1 hour, maybe less. All the connections come allready
sodered
> for long life. This will also work very well for a portable hex
beam
> for the Field Day.
> This is what I imagined so far... :)
> This is just a survey to see level of interest that there is out
> there for something like this. Please let me know what you guys
> think.
> Any comments are welcomed.
> Thank you...
>
> Ion Moldovan
> KC8CDQ
>

3222. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-07 17:27:53 UTC
From: t_ashland
Topic: 3219 Message: 3222

Add 6 meters and I'd consider it too....

--- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@...> wrote:
>
> I am a big fan of the Hex Beam. I have built a 5 band hex beam and
> I really like it. I am currently in the developing stages of a hex
> beam that is 80 percent preassembled. So far it looks that I would be
> able to sell it for under 500 dollars. All the wiring will be
> allready attached to the center pole and the fiberglass poles, that
> in turn hinge on the center hub. For ease of shipping the antenna
> will ship with the fiberglass poles collapsed and hinged up. All you
> have to do is strectch the telescoping poles, hinge them down and
> lock them in, and then lock in the wires along the poles in
> peselected locations. I imagine that total assembly time would be
> about 1 hour, maybe less. All the connections come allready sodered
> for long life. This will also work very well for a portable hex beam
> for the Field Day.
> This is what I imagined so far... :)
> This is just a survey to see level of interest that there is out
> there for something like this. Please let me know what you guys
> think.
> Any comments are welcomed.
> Thank you...
>
> Ion Moldovan
> KC8CDQ
>

3223. Re: [hex-beam] Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-07 14:42:15 UTC
From: Ron Weaver
Topic: 3219 Message: 3223

At $500.00 a POP I will take two. Anything beats paying Mike Traffie $1000.00 for $380.00 in parts....

ion_moldovan <ion_moldovan@...> wrote: I am a big fan of the Hex Beam. I have built a 5 band hex beam and
I really like it. I am currently in the developing stages of a hex
beam that is 80 percent preassembled. So far it looks that I would be
able to sell it for under 500 dollars. All the wiring will be
allready attached to the center pole and the fiberglass poles, that
in turn hinge on the center hub. For ease of shipping the antenna
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have to do is strectch the telescoping poles, hinge them down and
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about 1 hour, maybe less. All the connections come allready sodered
for long life. This will also work very well for a portable hex beam
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This is what I imagined so far... :)
This is just a survey to see level of interest that there is out
there for something like this. Please let me know what you guys
think.
Any comments are welcomed.
Thank you...

Ion Moldovan
KC8CDQ

All the Best

Ron - W6OM

www.qsl.net/w6om

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[Non-text portions of this message have been removed]

3224. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-07 23:23:51 UTC
From: Patrick Novak
Topic: 3219 Message: 3224

Hi Ion,

I'd be VERY interested and may find a few other guys here in VK land
to be the same...

Please put me on your list
73
Patrick
VK2PN

vk2pn@bigpond.net.au

--- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@...> wrote:
>
> I am a big fan of the Hex Beam. I have built a 5 band hex beam and
> I really like it. I am currently in the developing stages of a hex
>
>

3225. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-08 04:20:54 UTC
From: w4wb
Topic: 3219 Message: 3225

Ion and All,

I have been a Hex-Beam user for six years and have been highly impressed with the quality of the Traffie-built antenna. In addition, I have helped install two others and both performed fine. I also have the 6 m Hex-Beam and the 40-30 m Hex-Beam.

Ion, if you are able to make a quality 5-band Hex-Beam and sell it for USD500, then I sincerely wish you great success.

However, I can't believe anyone can sell this antenna for USD500 and be of reasonable quality. Why? I have a good appreciation of the cost to build the Traffie Hex-Beam. He charges USD989 presently (it was USD600 when I bought mine years ago) and makes only a modest profit. Furthermore, Holger has also taken the plunge into making and offering parts from which to construct his version of the Hex-Beam. From those I know that have acquired parts from him, they all comment on the fine quality. Just to buy the parts from Holger will cost you about USD837. You have to also include shipping for both, but for those living in the USA, the added S&H from Germany closes the gap between the price of the two.

In any case, both are well more than USD500. With Holger's parts, you have to do your own tweaking. He does offer a complete antenna on special order as I recall for an addition fee ... likely a total close to the Traffie antenna. Each Traffie antenna is fully assembled by Traffie, tuned, tested, and then disassembled for shipping. It takes only about 1-1/2 hours (the first time) to assemble and get the antenna up in the air.

I hope this note provides a bit of material for Ion and others to consider the cost reality of making a quality Hex-Beam type antenna that will perform and last for many, many years. For my part Ion, I simply don't believe you can achieve your price goal of USD500 for a 5-band version that meets the quality, performance, and life-time people expect.

Nevertheless, give it a go and maybe you have or will find a way to manufacture the antenna more cost effectively than anyone else.

Good luck es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@...>
wrote:
>
> I am a big fan of the Hex Beam. I have built a 5 band hex beam and

> I really like it. I am currently in the developing stages of a hex
> beam that is 80 percent preassembled. So far it looks that I would
be
> able to sell it for under 500 dollars. All the wiring will be
> allready attached to the center pole and the fiberglass poles,
that
> in turn hinge on the center hub. For ease of shipping the antenna
> will ship with the fiberglass poles collapsed and hinged up. All
you
> have to do is strectch the telescoping poles, hinge them down and
> lock them in, and then lock in the wires along the poles in
> peselected locations. I imagine that total assembly time would be
> about 1 hour, maybe less. All the connections come allready
sodered
> for long life. This will also work very well for a portable hex
beam
> for the Field Day.
> This is what I imagined so far... :)
> This is just a survey to see level of interest that there is out
> there for something like this. Please let me know what you guys
> think.
> Any comments are welcomed.
> Thank you...
>
> Ion Moldovan
> KC8CDQ
>

3226. Re: End Spacing Paradox

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-08 10:40:34 UTC
From: Bob Close
Topic: 3203 Message: 3226

My opinion on this is quite simple: You might consider asking permission from the guy who had the idea and created the concept, as well as starting a business based on HIS OWN ideas, rather than just capitalizing on his work by cheapening the design. De N1FQQ

[Non-text portions of this message have been removed]

3227. Re: [hex-beam] Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-08 15:48:20 UTC
From: Mike Van Winkle
Topic: 3219 Message: 3227

I am glad you feel that way Web. I am sure traffie will love you for it...I can build a superior design that is easy do deploy for much less than 500 so I am sure ION can make a buck at the 500 mark...after all hams are a cheap and cantankerous lot..Of which I are 1...LOL...W4HV....By the way its still just a fancy bent fan dipole...with a reflector!

--- w4wb <w4wb@...> wrote:

> Ion and All,
>
> I have been a Hex-Beam user for six years and have
> been highly
> impressed with the quality of the Traffie-built
> antenna. In
> addition, I have helped install two others and both
> performed fine.
> I also have the 6 m Hex-Beam and the 40-30 m
> Hex-Beam.
>
> Ion, if you are able to make a quality 5-band
> Hex-Beam and sell it
> for USD500, then I sincerely wish you great success.
>
> However, I can't believe anyone can sell this
> antenna for USD500 and
> be of reasonable quality. Why? I have a good
> appreciation of the
> cost to build the Traffie Hex-Beam. He charges
> USD989 presently (it
> was USD600 when I bought mine years ago) and makes
> only a modest
> profit. Furthermore, Holger has also taken the
> plunge into making
> and offering parts from which to construct his
> version of the Hex-
> Beam. From those I know that have acquired parts
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> comment on the fine quality. Just to buy the parts
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> cost you about USD837. You have to also include
> shipping for both,
> but for those living in the USA, the added S&H from

> Germany closes
> the gap between the price of the two.
>
> In any case, both are well more than USD500. With
> Holger's parts,
> you have to do your own tweaking. He does offer a
> complete antenna
> on special order as I recall for an addition fee ...
> likely a total
> close to the Traffie antenna. Each Traffie antenna
> is fully
> assembled by Traffie, tuned, tested, and then
> disassembled for
> shipping. It takes only about 1-1/2 hours (the
> first time) to
> assemble and get the antenna up in the air.
>
> I hope this note provides a bit of material for Ion
> and others to
> consider the cost reality of making a quality
> Hex-Beam type antenna
> that will perform and last for many, many years.
> For my part Ion, I
> simply don't believe you can achieve your price goal
> of USD500 for a
> 5-band version that meets the quality, performance,
> and life-time
> people expect.
>
> Nevertheless, give it a go and maybe you have or
> will find a way to
> manufacture the antenna more cost effectively than
> anyone else.
>
> Good luck es 73,
> Barry W4WB
>
>
>
>
>
> --- In hex-beam@yahoogroups.com, "ion_moldovan"
> <ion_moldovan@...>
> wrote:
> >
> > I am a big fan of the Hex Beam. I have built a 5
> band hex beam and
> > I really like it. I am currently in the developing
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> > beam that is 80 percent preassembled. So far it

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> be
> > able to sell it for under 500 dollars. All the
> wiring will be
> > allready attached to the center pole and the
> fiberglass poles,
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> > in turn hinge on the center hub. For ease of
> shipping the antenna
> > will ship with the fiberglass poles collapsed and
> hinged up. All
> you
> > have to do is strectch the telescoping poles,
> hinge them down and
> > lock them in, and then lock in the wires along the
> poles in
> > peselected locations. I imagine that total
> assembly time would be
> > about 1 hour, maybe less. All the connections come
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> > for long life. This will also work very well for a
> portable hex
> beam
> > for the Field Day.
> > This is what I imagined so far... :)
> > This is just a survey to see level of interest
> that there is out
> > there for something like this. Please let me know
> what you guys
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> > Any comments are welcomed.
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> > Ion Moldovan
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Tired of spam? Yahoo! Mail has the best spam protection around
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3228. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-08 17:48:36 UTC
From: w4wb
Topic: 3219 Message: 3228

I am most impressed by your claim Mike. Can you share your superior design with all of us that can be manufactured for < $500? Perhaps your labor is free? Quite a claim, so kindly explain!
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...>
wrote:
>
> I am glad you feel that way Web. I am sure traffie
> will love you for it...I can build a superior design
> that is easy do deploy for much less than 500 so I am
> sure ION can make a buck at the 500 mark...after all
> hams are a cheap and cantankerous lot..Of which I are
> 1...LOL...W4HV....By the way its still just a fancy
> bent fan dipole...with a reflector!
>

3229. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-08 18:52:52 UTC
From: Alan
Topic: 3219 Message: 3229

It sounds very impressive and the price would definitely be a plus. I have a HX5BI which I like very much, but I know that most people may be put off by the price. The Hex Beam is definitely a winner and it could easily be a super sell if you can offer it at a reasonable price and also do some good marketing. It also sounds as if Mike is thinking of retiring from the antenna businss and if no one else steps up to the plate and buys his business then the ham community would no longer have access to a commercial version of the Hex Beam. I think that the Hex Beam is one of the most innovative antennas around and could become a big volume item when done right. A six meter option would also be great. Don't know how hard that would be without screwing up the other bands. Also in the future a 40/30 meter duo-band version would be nice. Good luck with your venture.

3230. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-09 19:56:05 UTC
From: kc0rdg
Topic: 3219 Message: 3230

I'd do it in a heartbeat. Two main things you MUST make sure are good: Quality and Performance. Does it hold up to strong winds? Will it stay together for years? Does it perform well? I'd gladly fork over the money!

I would buy a Hex but they are out of my price range. I can understand that an antenna is MOST of your station and many hams have no problems spending 1k+ on a radio and yet whine about the price of the Hex. I think the reason is, when you pay for a nice radio, to get something that to make yourself would be really tough to do unless you have surface mount technology and really know what your doing. Now the Hex, it's really just some fiberglass and wires and to pay so much for something people could reasonably construct themselves (indeed many do and have), is a bit harder to sell. I honestly believe if Mike lowered the price to something like $500-600, they would be flying off the shelves. Selling more for cheaper is more work, but there are more out there and that in itself is advertising. Secondly, selling many somewhat cheaper might be more of a viable business plan than selling fewer that are more expensive.

Go to town and keep us updated!

3231. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-09 21:53:02 UTC
From: dl7io
Topic: 3219 Message: 3231

If you have higher costs, you can't sell it for 500 bucks.
Than you would give money out with every antenna.

Out of an commercial view you would need to get twice the money to
run a serious business model. The margin making an aluminum beam is a
few times higher.

If I hear something of teleskoping fiberglas you can see rolling my
eyes... If Ion is going to produce a high quality beam he will find
out himself that this is different from fishing rods and will cost
you money. You can't go for a lightweight antenna with pultruded
fiberglas and you will not get the typical shape and needed pressure
with same diameter fiberglas. The crux of this fine antenna is that
you need other kind of materials. And those ones are very expensive.

Simply to explain you some relations.... Fiberglas is a product made
out of oil and the prices are depending on the oil prices.
I'm buying a few 100's of spreaders this year and paying about 50
percent more than 2 years ago where I have built only 5 beams!!!

The other main components are copper, brass and stainless steel.
Please finde out how those prices have developed over the past 2
years...

Welcome back to earth!
73 Holger

--- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@...> wrote:
>
> I'd do it in a heartbeat. Two main things you MUST make sure are
> good: Quality and Performance. Does it hold up to strong winds?
Will
> it stay together for years? Does it perform well? I'd gladly fork
> over the money!
>
> I would buy a Hex but they are out of my price range. I can
> understand that an antenna is MOST of your station and many hams
have
> no problems spending 1k+ on a radio and yet whine about the price of
> the Hex. I think the reason is, when you pay for a nice radio, to
get
> something that to make yourself would be really tough to do unless
you
> have surface mount technology and really know what your doing. Now
> the Hex, it's really just some fiberglass and wires and to pay so
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> for something people could reasonably construct themselves (indeed
> many do and have), is a bit harder to sell. I honestly believe if
> Mike lowered the price to something like $500-600, they would be
> flying off the shelves. Selling more for cheaper is more work, but
> there are more out there and that in itself is advertising.
Secondly,
> selling many somewhat cheaper might be more of a viable business
plan
> than selling fewer that are more expensive.
>
> Go to town and keep us updated!
>

3232. Re: [hex-beam] Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-09 23:01:19 UTC
From: richard
Topic: 3219 Message: 3232

I have one of Holgers beams and the build quality is excellent.
I bought from holger instead of traffie because buying outside of the european union would have cost me import duties of 17%
It was not cheap but still cheaper than buying from the usa.
Quality costs, if you sell the antenna for 500 dollars then it will not be the same quality.

I could have homebrewed but to be honest work commitments made this impossible so I paid for the antenna, if I was building then I would have made it cheaper but then again how long would it have lasted ?.
I would homebrew cheap as I could repair but when my radio time is to precious to spend making the antenna it would also be to precious to repair it so I got a quality antenna that I know will last with minimum maintenance.

It is all a matter of what you want and the time you have to spare on the hobby.

Dick M0CLZ

----- Original Message -----
From: dl7io
To: hex-beam@yahoogroups.com
Sent: Sunday, July 09, 2006 10:53 PM
Subject: [hex-beam] Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

If you have higher costs, you can't sell it for 500 bucks.
Than you would give money out with every antenna.

Out of an commercial view you would need to get twice the money to
run a serious business model. The margin making an aluminum beam is a
few times higher.

If I hear something of teleskoping fiberglas you can see rolling my
eyes... If Ion is going to produce a high quality beam he will find
out himself that this is different from fishing rods and will cost
you money. You can't go for a lightweight antenna with pultruded
fiberglas and you will not get the typical shape and needed pressure
with same diameter fiberglas. The crux of this fine antenna is that
you need other kind of materials. And those ones are very expensive.

Simply to explain you some relations.... Fiberglas is a product made
out of oil and the prices are depending on the oil prices.
I'm buying a few 100's of spreaders this year and paying about 50
percent more than 2 years ago where I have built only 5 beams!!!

The other main components are copper, brass and stainless steel.
Please finde out how those prices have developed over the past 2

years...

Welcome back to earth!
73 Holger

--- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@...> wrote:
>
> I'd do it in a heartbeat. Two main things you MUST make sure are
> good: Quality and Performance. Does it hold up to strong winds?
Will
> it stay together for years? Does it perform well? I'd gladly fork
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> I would buy a Hex but they are out of my price range. I can
> understand that an antenna is MOST of your station and many hams
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> no problems spending 1k+ on a radio and yet whine about the price of
> the Hex. I think the reason is, when you pay for a nice radio, to
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> something that to make yourself would be really tough to do unless
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> have surface mount technology and really know what your doing. Now
> the Hex, it's really just some fiberglass and wires and to pay so
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> for something people could reasonably construct themselves (indeed
> many do and have), is a bit harder to sell. I honestly believe if
> Mike lowered the price to something like $500-600, they would be
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> there are more out there and that in itself is advertising.
Secondly,
> selling many somewhat cheaper might be more of a viable business
plan
> than selling fewer that are more expensive.
>
> Go to town and keep us updated!
>

No virus found in this incoming message.
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Version: 7.1.394 / Virus Database: 268.9.10/383 - Release Date: 07/07/2006

[Non-text portions of this message have been removed]

3233. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-10 01:31:14 UTC
From: Colin
Topic: 3219 Message: 3233

how long would it have lasted?

Well, my homebrew 5 bander is well over a year old now and still
going strong :)
If it survives for just 3 years.. it`ll have cost me about £1 week!
The commercial hex in comparison (£700 over here) would have to last
13.5 years to equal that ;)

The spreaders are the most expensive part of the antenna and don`t
radiate rf worth a jott, but as Holger pointed out, the type of
fibreglass is vital to the bending properties.

Design a Hexbeam that doesn`t rely on the bend to gain rigidity and
you`ll have a product that might weigh slightly more.. but probably
cost even less than the $500 you envisage.

Imho,everyone should homebrew a 5 band hexbeam at least once :)

73 Colin
M0XBM

--- In hex-beam@yahoogroups.com, "richard" <m0clz1@...> wrote:
>
> I have one of Holgers beams and the build quality is excellent.
> I bought from holger instead of traffie because buying outside of
the european union would have cost me import duties of 17%
> It was not cheap but still cheaper than buying from the usa.
> Quality costs, if you sell the antenna for 500 dollars then it will
not be the same quality.
>
> I could have homebrewed but to be honest work commitments made this
impossible so I paid for the antenna, if I was building then I would
have made it cheaper but then again how long would it have lasted ?.
> I would homebrew cheap as I could repair but when my radio time is
to precious to spend making the antenna it would also be to precious
to repair it so I got a quality antenna that I know will last with
minimum maintenance.
>
> It is all a matter of what you want and the time you have to spare
on the hobby.
>
> Dick M0CLZ
>
> ----- Original Message -----
> From: dl7io
> To: hex-beam@yahoogroups.com

> Sent: Sunday, July 09, 2006 10:53 PM
> Subject: [hex-beam] Re: Five band 20-10 Quick-Hex Beam for under
500 bucks survey
>
>
> If you have higher costs, you can't sell it for 500 bucks.
> Than you would give money out with every antenna.
>
> Out of an commercial view you would need to get twice the money
to
> run a serious business model. The margin making an aluminum beam
is a
> few times higher.
>
> If I hear something of teleskoping fiberglas you can see rolling
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> eyes... If Ion is going to produce a high quality beam he will
find
> out himself that this is different from fishing rods and will
cost
> you money. You can't go for a lightweight antenna with pultruded
> fiberglas and you will not get the typical shape and needed
pressure
> with same diameter fiberglas. The crux of this fine antenna is
that
> you need other kind of materials. And those ones are very
expensive.
>
> Simply to explain you some relations.... Fiberglas is a product
made
> out of oil and the prices are depending on the oil prices.
> I'm buying a few 100's of spreaders this year and paying about 50
> percent more than 2 years ago where I have built only 5 beams!!!
>
> The other main components are copper, brass and stainless steel.
> Please finde out how those prices have developed over the past 2
> years...
>
> Welcome back to earth!
> 73 Holger
>
> --- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@> wrote:
> >
> > I'd do it in a heartbeat. Two main things you MUST make sure are
> > good: Quality and Performance. Does it hold up to strong winds?
> Will
> > it stay together for years? Does it perform well? I'd gladly
fork
> > over the money!
> >

> > I would buy a Hex but they are out of my price range. I can
> > understand that an antenna is MOST of your station and many
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> ---

>
>
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> Version: 7.1.394 / Virus Database: 268.9.10/383 - Release Date:
07/07/2006
>
>
> [Non-text portions of this message have been removed]

>

3234. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-11 07:29:39 UTC
From: dl7io
Topic: 3219 Message: 3234

Hello Colin,
how many hours did you work on your beam and how did you calculate
your labour? While running this as a business you have to get paid
for your labour! And everybody who tried to build a hex knows that
this is time consuming.
If you buy one you will be QRV after 1-2 hours of work, depending on
your skills. But building/testing/preparing one takes all together
about 2 working days for a professional. This is not only the work
itself. But you need to purchase parts, search & check possible
deliverers, do a lot of paperwork and also the designing/testing
takes a lot of time.

You have to have this in mind if you talk about a business case.

If we would discuss this with a banker asking for money he would tell
you that the price has to be doubled to make it a serious business
model.

73 Holger

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@...> wrote:
>
> how long would it have lasted?
>
> Well, my homebrew 5 bander is well over a year old now and still
> going strong :)
> If it survives for just 3 years.. it`ll have cost me about £1 week!
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> The spreaders are the most expensive part of the antenna and don`t
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> --- In hex-beam@yahoogroups.com, "richard" <m0clz1@> wrote:
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> > It is all a matter of what you want and the time you have to
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> on the hobby.
> >
> > Dick M0CLZ
> >
> > ----- Original Message -----
> > From: dl7io
> > To: hex-beam@yahoogroups.com
> > Sent: Sunday, July 09, 2006 10:53 PM
> > Subject: [hex-beam] Re: Five band 20-10 Quick-Hex Beam for
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> 500 bucks survey
> >
> >
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> > 73 Holger
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> > [Non-text portions of this message have been removed]
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3235. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-10 09:20:39 UTC
From: dl7io
Topic: 3219 Message: 3235

Hello Colin,
how long have you been working on your hexbeam and how much did you calculate per hour? If you run this as a business you need to be paid for your labour. Especially with an antenna like this which is very time consuming. I have calculated the working time and adding all needed working steps (including paper work like searching sources, purchasing, billing etc.) you need about 2 days per antenna as a professional!!!

I'm running this as a hobby business and selling a 5-bander (20-10m) for 700 Euro plus shipping. I meanwhile have sent a few to the UK and this costs about 540 British pounds incl. shipping.

And to give you an open book: In this price I have calculated with 2 □uro/hour... again in words "two per hour".

I'm not making any profit with this and my wife tells me everyday to stop this bullsh... and better spend the time with the family.

In principle she is right and I'm making this only because I like it (It's my hobby...) and I get requests from others who have no time or skills.

Fortunally I have another well running business which allows me to do so.

73 Holger

PS: 40m versions start with 1100,- Euro plus 50 Euro for every additional band.

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@...> wrote:
>
> how long would it have lasted?
>
> Well, my homebrew 5 bander is well over a year old now and still
> going strong :)
> If it survives for just 3 years.. it`ll have cost me about £1 week!
> The commercial hex in comparison (£700 over here) would have to
last
> 13.5 years to equal that ;)
>
> The spreaders are the most expensive part of the antenna and don`t
> radiate rf worth a jott, but as Holger pointed out, the type of
> fibreglass is vital to the bending properties.
>
> Design a Hexbeam that doesn`t rely on the bend to gain rigidity and

> you`ll have a product that might weigh slightly more.. but probably
> cost even less than the $500 you envisage.
>
> Imho,everyone should homebrew a 5 band hexbeam at least once :)
>
> 73 Colin
> M0XBM
>
> --- In hex-beam@yahoogroups.com, "richard" <m0clz1@> wrote:
> >
> > I have one of Holgers beams and the build quality is excellent.
> > I bought from holger instead of traffie because buying outside of
> the european union would have cost me import duties of 17%
> > It was not cheap but still cheaper than buying from the usa.
> > Quality costs, if you sell the antenna for 500 dollars then it
will
> not be the same quality.
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> > I could have homebrewed but to be honest work commitments made
this
> impossible so I paid for the antenna, if I was building then I
would
> have made it cheaper but then again how long would it have
lasted ?.
> > I would homebrew cheap as I could repair but when my radio time
is
> to precious to spend making the antenna it would also be to
precious
> to repair it so I got a quality antenna that I know will last with
> minimum maintenance.
> >
> > It is all a matter of what you want and the time you have to
spare
> on the hobby.
> >
> > Dick M0CLZ
> >
> > ----- Original Message -----
> > From: dl7io
> > To: hex-beam@yahoogroups.com
> > Sent: Sunday, July 09, 2006 10:53 PM
> > Subject: [hex-beam] Re: Five band 20-10 Quick-Hex Beam for
under
> 500 bucks survey
> >
> >
> > If you have higher costs, you can't sell it for 500 bucks.
> > Than you would give money out with every antenna.
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> > Out of an commercial view you would need to get twice the money

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> > run a serious business model. The margin making an aluminum
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> > fiberglas and you will not get the typical shape and needed
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> > you need other kind of materials. And those ones are very
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> > Simply to explain you some relations.... Fiberglas is a product
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> > I'm buying a few 100's of spreaders this year and paying about
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> > percent more than 2 years ago where I have built only 5 beams!!!
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> > The other main components are copper, brass and stainless
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> > Please finde out how those prices have developed over the past
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> > years...
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> > Welcome back to earth!
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> > --- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@> wrote:
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> > > I would buy a Hex but they are out of my price range. I can

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3236. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-12 00:51:00 UTC
From: Colin
Topic: 3219 Message: 3236

Hi Holger
I agree that the labour is the stinger..hidden costs tend to mount up too, so you really should allow for 100% profit for commercial production to cover all the bases.

I built my hex as it didn`t seem any more difficult than other antennas i`ve homebrewed in the past, including a 3 ele hf quad.

I do like challenging projects, in truth the hexbeam was a "busman`s holiday" of sorts for me :)

I build a lot of geodesic structures so i`m no stranger to hexagons, my latest design consists of 450 individual struts that all have to be custom fabricated.
Now if i were to charge the true amount for my time and labour involved in these..i`d sell very few.

I guess it really depends how much enjoyment you get from building them against how much profit is in it.

I`ll stick to geodesics and leave the hexbeams to you, hi.

73
Colin m0xbm

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@...> wrote:
>
> Hello Colin,
> how many hours did you work on your beam and how did you calculate
> your labour? While running this as a business you have to get paid
> for your labour! And everybody who tried to build a hex knows that
> this is time consuming.
> If you buy one you will be QRV after 1-2 hours of work, depending
on
> your skills. But building/testing/preparing one takes all together
> about 2 working days for a professional. This is not only the work
> itself. But you need to purchase parts, search & check possible
> deliverers, do a lot of paperwork and also the designing/testing
> takes a lot of time.
>
> You have to have this in mind if you talk about a business case.
>
> If we would discuss this with a banker asking for money he would
tell
> you that the price has to be doubled to make it a serious business
> model.
>

> 73 Holger
>
> --- In hex-beam@yahoogroups.com, "Colin" <djcol1@> wrote:
> >
> > how long would it have lasted?
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> > Well, my homebrew 5 bander is well over a year old now and still
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> > > ----- Original Message -----
> > > From: dl7io
> > > To: hex-beam@yahoogroups.com
> > > Sent: Sunday, July 09, 2006 10:53 PM
> > > Subject: [hex-beam] Re: Five band 20-10 Quick-Hex Beam for
> under
> > 500 bucks survey
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> > > [Non-text portions of this message have been removed]
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3237. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-12 01:02:30 UTC
From: ion_moldovan
Topic: 3219 Message: 3237

I want to thank everyone for their input. I am currently in vacation, but as soon as I get back I will start a little web site with some details and a lot of pictures of what I have in mind. Just to give you some more info on this beam, here are some points that might help:
*main hub is made out of welded aluminum and SS hardware.
*the poles are fiberglass and too keep the cost down I have a source of 16ft loong crapie poles that when used for this project (first 11ft sections) are very strong. The beam that I have up now use the same poles and for the last year went through some nasty winds. Still up and running.
*I am still trying to find a good idea of attaching the wires to the poles, but one day it will come to me :) . The antenna that I have up uses zip ties. They seem to be holding up well... but maybe another method would look more... proffesional :)

Well.. that;s it for now. I'll see y'all when I get back from Aruba.

Ion Moldovan
KC8CDQ

3238. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-12 01:22:05 UTC
From: Colin
Topic: 3219 Message: 3238

Hi Ion,
Here`s my thoughts for what it`s worth.

For a single band hex your plan might work, but for a 5-bander it
won`t.
Using the thickest sections of a 5m fibreglass rod won`t give the
correct curve needed.
The immense strain on the rod needed to get even close to the correct
curve will almost certainly snap it off...either near the center hub
or at the transition to the 2nd telescopic section.
Cable ties can slip in wet/windy weather and hose clamps will easily
crush thin fibreglass.
Drilling thin wall fibreglass is not an option.

Good luck
73
Colin

--- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@...>
wrote:
>
> I want to thank everyone for their input. I am currently in
> vacation, but as soon as I get back I will start a little web site
> with some details and a lot of pictures of what I have in mind.
Just
> to give you some more info on this beam, here are some points that
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>
> Ion Moldovan
> KC8CDQ

>

3239. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-13 23:29:21 UTC
From: zerobeat40
Topic: 3219 Message: 3239

What you'll find very quickly is that it's the labor in getting materials fabricated that is very pricey.

I used to work in the electronics industry; the two most common materials are copper and fiberglass-reinforced epoxy. Why? There is no cheaper dielectric than fiberglass-reinforced epoxy, and it's very difficult to beat copper for its conductivity per cost unit ratio.

Fiberglass is not made from oil, neither is epoxy, although both require energy for their formation into useful forms. We are paying at present approx $2 per pound for fiber-reinforced anything - sheets, rods, bars.

If someone wanted to make a hex-beam as a business, one would not purchase fiberglass, but instead, learn how and do the layouts on their own. Several of the screwdriver antenna companies do exactly that. Backyard mechanics have been doing epoxy-impregnated fiberglass for decades; it is only a touch more difficult than nominal woodworking. The silly way to run the business would be to find and purchase the fiberglass.

A key would be to find ways to semi-automate the fiber/epoxy lay-up process, so you don't spend many hours at it.

I'd be contacting guys who sail boats. Most of them do their own fiberglass lay-ups for masting. Many books are available to teach you how to achieve your goals of weight versus strength versus flexure capability.

The various dielectric blocks, presumably made of polyethermide, also need to be tooled up, so that it's not a long labor of torture for fabrication.

In the end, the raw materials should be far less than $100 for a 20 pound antenna that's made more of dielectric than conductor. It is the fabrication labor which will drive the cost.

FM

--- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@...> wrote:
>
> I want to thank everyone for their input. I am currently in
> vacation, but as soon as I get back I will start a little web site
> with some details and a lot of pictures of what I have in mind. Just
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3240. RE: [hex-beam] Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-14 13:54:34 UTC
From: Michael Baker
Topic: 3219 Message: 3240

WOW! After reading some of the replies I felt compelled to respond.

Let me preface my response to some of the recommendations given that I do not at present own a Hex Beam but I have been following the antennas progress for some time now and did throw one together for 10 meters a few years ago as a test antenna so I understand some of its weaknesses and strong points as well as some of the problems with building one from scratch.

The Poles.
My thought is don't try to reinvent the wheel. I have had to have items made up of fiberglass for a commercial interest I was involved in 20+ years ago and I can tell you from observation that it is labor intensive which equals bucks/cost so, unless you or your company has a LOT of experience manufacturing fiberglass poles, leave it to the pros. Much less headaches, cost, tooling, learning curve, etc. You might try Jackite. They make telescoping poles for supporting kites and pennants at sporting events and they make a 31' pole that starts out about 3/8" in Dia and tapers to about 2" so they might make you a deal on using a bit over half of the antenna at some reduced price. 31' pole is $50. They have others available.

Wire element attachment points.
Forget Zip Ties. They fail quickly in the Arizona Sun. You need something more substantial if you intend for it to survive the sun, Ice loading, wind and cold of various parts of the country.
You could use a section of rectangular stock fiberglass say 1" X 2" or 1" X 3" drilled out to fit the fiberglass tube attachment point with a captive screw and a screw point on the other end to attach the wire or a SS hose clamp with a bolt welded to the band for the wire to wrap around between two flat washers and then nutted when completed. Both would be cheep and not difficult to make or have made. I took hose clamps and drilled them out and ran a bolt thru them and used them on solid fiberglass rod for the elements on my 10 meter model and experimented with using 1/2" thick cut sections of fiberglass sheet drilled out and taped for some others to test them. Both work.

Materials are not going to be your biggest expense. Labor is. No one works for free not even you so remember if it involves time, it costs you money somewhere down the line.

In closing let me say good luck and let me know if you decide to actually get into the business because at the price you are thinking of, I would be interested. Also don't discount making the antenna a Kit of sorts and let the owner do as much of the building as possible. It's that Time is

Money thing again.

Best 72'73'

Michael Baker K7DD
k7ddmjb@...

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of zerobeat40
Sent: Thursday, July 13, 2006 4:29 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

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Yahoo! Groups Links

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Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.0/388 - Release Date: 7/13/2006

3241. Re: Five band 20-10 Quick-Hex Beam for under 500 bucks survey

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-14 02:07:54 UTC
From: zerobeat40
Topic: 3219 Message: 3241

Sorry for the broken nature of that last posting of mine. I cut and pasted from something on another group. We were discussing dielectric materials and he gave us this text on G-10 type epoxy and fibreglass. Getting old.

Zed

--- In hex-beam@yahoogroups.com, "zerobeat40" <zerobeat40@...> wrote:
>
> What you'll find very quickly is that it's the labor in getting
> materials fabricated that is very pricey.
>
> I used to work in the electronics industry; the two most common
> materials are copper and fiberglass-reinforced epoxy. Why? There is
> no cheaper dielectric than fiberglass-reinforced epoxy, and it's very
> difficult to beat copper for its conductivity per cost unit ratio.
>
> Fiberglass is not made from oil, neither is epoxy, although both
> require energy for their formation into useful forms. We are paying
> at present approx $2 per pound for fiber-reinforced anything - sheets,
> rods, bars.
>
> If someone wanted to make a hex-beam as a business, one would not
> purchase fiberglass, but instead, learn how and do the layouts on
> their own. Several of the screwdriver antenna companies do exactly
> that. Backyard mechanics have been doing epoxy-impregnated fiberglass
> for decades; it is only a touch more difficult than nominal
> woodworking. The silly way to run the business would be to find and
> purchase the fiberglass.
>
> A key would be to find ways to semi-automate the fiber/epoxy lay-up
> process, so you don't spend many hours at it.
>
> I'd be contacting guys who sail boats. Most of them do their own
> fiberglass lay-ups for masting. Many books are available to teach you
> how to achieve your goals of weight versus strength versus flexure
> capability.
>
> The various dielectric blocks, presumably made of polyethermide, also
> need to be tooled up, so that it's not a long labor of torture for
> fabrication.
>
> In the end, the raw materials should be far less than $100 for a 20
> pound antenna that's made more of dielectric than conductor. It is
> the fabrication labor which will drive the cost.

>
> FM
>
> --- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@> wrote:
> >
> > I want to thank everyone for their input. I am currently in
> > vacation, but as soon as I get back I will start a little web site
> > with some details and a lot of pictures of what I have in mind. Just
> > to give you some more info on this beam, here are some points that
> > might help:
> > *main hub is made out of welded aluminum and SS hardware.
> > *the poles are fiberglass and too keep the cost down I have a source
> > of 16ft loong crapie poles that when used for this project (first
> > 11ft sections) are very strong. The beam that I have up now use the
> > same poles and for the last year went through some nasty winds.
> > Still up and running.
> > *I am still trying to find a good idea of attaching the wires to the
> > poles, but one day it will come to me :) . The antenna that I have
> > up uses zip ties. They seem to be holding up well... but maybe
> > another method would look more... proffesional :)
> >
> > Well.. that;s it for now. I'll see y'all when I get back from Aruba.
> >
> > Ion Moldovan
> > KC8CDQ
> >
>

3242. Re: SIngle Point Feed Line

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-16 01:30:36 UTC
From: douglis88
Topic: 3204 Message: 3242

--- In hex-beam@yahoogroups.com, "douglis88" <douglas@...> wrote:
>
> I am planning to build a 3 band hex beam 10/15/20. I already have the
> fishing poles:) There seems to be a lot of discussion about feed
> lines for connecting the multiband elements downward or upward along
> the center post. I wonder if I should simply terminate all my
> elements at the same point (15m), so my hex beam would be like a
> multi-band dipole where all elements are fed at the same point. Any
> comments?
> ..Doug VE3EFC
>

My new hex beam is working great with the elements slightly sloping to
a single point feed. I posted details and photos on my web site...

http://ve3efc.ca/hexbeam.html

..Doug VE3EFC

3243. Re: SIngle Point Feed Line

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-16 03:52:02 UTC
From: w4wb
Topic: 3204 Message: 3243

Well done Doug!
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "douglis88" <douglas@...> wrote:

>
> My new hex beam is working great with the elements slightly sloping
to
> a single point feed. I posted details and photos on my web site...
>
> http://ve3efc.ca/hexbeam.html
>
> ..Doug VE3EFC
>

3244. VE3EFC's Installation

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-16 11:16:46 UTC
From: ownsyar
Topic: 3244 Message: 3244

Hey Doug,
What a great installation! You have outdone yourself! Anybody who hasn't looked at Doug's webpage is missing out. I like your plywood base and the floor flange interface for the mast and I particularly like the plastic chain links. Heck I liked every thing about it. The single feedpoint looks good. I am curious about how a five band hex will work with this feed system.
Again great job, good luck and 73!
Allen KA5N

3245. Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-16 22:44:41 UTC
From: John Cowan
Topic: 3245 Message: 3245

Now that I have managed to get my hex beam together I am wondering exactly how to adjust the SWR. I am feeding the antenna from the top. I took a prelimnary reading 3 feet off the ground and next weekend I will raise it 18 feet in the air to get a more accurate assesment.

14.150 reads 1.6 SWR, 14.350 reads 1.9 SWR
18.110 reads 2.6 SWR, 18.160 reads 2.3 SWR
21.200 reads 1.9 SWR 21.450 reads 2.3 SWR
24.930 reads 2.6 SWR , 24.990 reads 2.5 SWR
28.300 reads 2.3SWR , 29.700 reads 2.6 SWR

John W0TMM

_____
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[Non-text portions of this message have been removed]

3246. Re: SIngle Point Feed Line

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-17 14:41:25 UTC
From: Colin
Topic: 3204 Message: 3246

Nice work Doug.

Good to see ingenuity in action.

I give you 10 out of 10 for originality, especially the mast!

It would be interesting to compare the predicted patterns of your hex
versus a standard design and what effect the various sloping elements
have.
The common reflector connection might allow for a simplified hexbeam
hat-loaded lowband vertical perhaps.

73
Colin m0xbm

--- In hex-beam@yahoogroups.com, "douglis88" <douglas@...> wrote:
>
> --- In hex-beam@yahoogroups.com, "douglis88" <douglas@> wrote:
> >
> > I am planning to build a 3 band hex beam 10/15/20. I already
have the
> > fishing poles:) There seems to be a lot of discussion about feed
> > lines for connecting the multiband elements downward or upward
along
> > the center post. I wonder if I should simply terminate all my
> > elements at the same point (15m), so my hex beam would be like a
> > multi-band dipole where all elements are fed at the same point.
Any
> > comments?
> > ..Doug VE3EFC
> >
>
> My new hex beam is working great with the elements slightly sloping
to
> a single point feed. I posted details and photos on my web site...
>
> http://ve3efc.ca/hexbeam.html
>
> ..Doug VE3EFC
>

3247. Re: SIngle Point Feed Line

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-17 16:34:55 UTC
From: douglis88
Topic: 3204 Message: 3247

Thanks Colin,

My 3 reflector elements are independent of each other. There is no connection at the center post for the reflectors. They simply run inward to the center post then back out (3 insulated wires passing through a single plastic eyelet). It never occured to me to cross-connect the reflectors. I guess if they were bare wires I would have connected them all together. I wonder if it makes a difference.

3248. Re: [hex-beam] Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-17 19:06:26 UTC
From: mike hardy
Topic: 3245 Message: 3248

hi,
hex beam guys.
i wonder how you lads feed the 5 banded hex beam ? do you use rg58 coax to a switching system ?
very intrested to know ?
Mike Hardy
M0FCG - M1KEY - 2E0KEY
mob - 07791754432
email: m0fcg1@...
talk on skype im m0fcg1

http://www.wolfpackhd2.tk/

> Now that I have managed to get my hex beam together I am wondering exactly how to adjust the SWR. I am feeding the antenna from the top. I took a prelimnary reading 3 feet off the ground and next weekend I will raise it 18 feet in the air to get a more accurate assesment.
>
> 14.150 reads 1.6 SWR, 14.350 reads 1.9 SWR
> 18.110 reads 2.6 SWR, 18.160 reads 2.3 SWR
> 21.200 reads 1.9 SWR 21.450 reads 2.3 SWR
> 24.930 reads 2.6 SWR , 24.990 reads 2.5 SWR
> 28.300 reads 2.3SWR , 29.700 reads 2.6 SWR
>
> John W0TMM
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
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> [Non-text portions of this message have been removed]
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3249. Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-18 11:23:11 UTC
From: w0tmm
Topic: 3245 Message: 3249

Guys, I need some input here. I have read the posts about gain and swr. I do not have a computer model to work with. Just an MFJ-269 SWR analyzer. I would like to know if there is anything else I need to do to optimize the antenna before I put it on the tower. My wire measuements I got fromthe K4KIO web site. My feedline is #8 stero amp wire.

What I do not understand is the big difference in SWR from Band to Band. Is the difference just the end gap adjustment? or is it the interaction of the wires to one another?

> 14.150 reads 1.6 SWR, 14.350 reads 1.9 SWR
> 18.110 reads 2.6 SWR, 18.160 reads 2.3 SWR
> 21.200 reads 1.9 SWR 21.450 reads 2.3 SWR
> 24.930 reads 2.6 SWR , 24.990 reads 2.5 SWR
> 28.300 reads 2.3SWR , 29.700 reads 2.6 SWR
>
> John W0TMM

3250. Re: [hex-beam] Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-18 12:06:45 UTC
From: Mike Van Winkle
Topic: 3245 Message: 3250

Gain Vs swr ,,,,How abt simple thought...Best swr is a 52 ohm antenna....Unfortunate dipoles are 75 ohm at resonance....Not a great reality....Thats why the two never converge at the same point....So remember that you are working with a bent fan dipole with capacitive loading between the elements and a common feed point ...add in the reflector and yep thats a hexbeam...computer models are not always accurate because of the physical reality of construction and material variance...whew work till you get one right then duplicate it exactly...wait we are constantly varying all the materials because we are hams....GOD HELP US...LOL!

--- w0tmm <w0tmm@...> wrote:

> Guys, I need some input here. I have read the posts
> about gain and
> swr. I do not have a computer model to work with.
> Just an MFJ-269 SWR
> analyzer. I would like to know if there is anything
> else I need to do
> to optimize the antenna before I put it on the
> tower. My wire
> measuements I got fromthe K4KIO web site. My
> feedline is #8 stero amp
> wire.
>
> What I do not understand is the big difference in
> SWR from Band to Band.
> Is the difference just the end gap adjustment? or is
> it the
> interaction of the wires to one another?
>
>
>
> > 14.150 reads 1.6 SWR, 14.350 reads 1.9 SWR
> > 18.110 reads 2.6 SWR, 18.160 reads 2.3 SWR
> > 21.200 reads 1.9 SWR 21.450 reads 2.3 SWR
> > 24.930 reads 2.6 SWR , 24.990 reads 2.5 SWR
> > 28.300 reads 2.3SWR , 29.700 reads 2.6 SWR
> >
> > John W0TMM
>
>

>
>

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3251. Re: [hex-beam] Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-18 17:01:25 UTC
From: dave@zievid.com
Topic: 3245 Message: 3251

You may want to try removing the feedline and see what the SWR curves look like when feeding each band directly. The feedline and multiple bands will interact in the final configuration, but it's interesting to get readings when it's working as a mono-bander.

I had a tough time getting the SWR curves on all bands on my homebrew (http://www.zievid.com/W6OT/Hex/Beam.htm) to work, and tried various types of feedline until settling on short pieces of coax fed from the top. Many other people have gotten parallel wires to work, but I just couldn't make it happen on all 5 bands at the same time - usually the bands farthest from the feed point had too high SWR.

Also, I'm not sure of the exact problem you're trying to solve - is the SWR not low enough for you, or the dip not in the right place?

FWIW, when I had to move the SWR curve to lower frequency on any of the bands, I shortened the wires of the driven element only and kept the end spacing the same. To get a lower SWR value, I changed the feedline to coax and got nice deeper dips.

Hope this helps,

- Dave
W6OT

> Guys, I need some input here. I have read the posts about gain and
> swr. I do not have a computer model to work with. Just an MFJ-269 SWR
> analyzer. I would like to know if there is anything else I need to do
> to optimize the antenna before I put it on the tower. My wire
> measuements I got fromthe K4KIO web site. My feedline is #8 stero amp
> wire.
>
> What I do not understand is the big difference in SWR from Band to Band.
> Is the difference just the end gap adjustment? or is it the
> interaction of the wires to one another?
>
>
>
>> 14.150 reads 1.6 SWR, 14.350 reads 1.9 SWR
>> 18.110 reads 2.6 SWR, 18.160 reads 2.3 SWR
>> 21.200 reads 1.9 SWR 21.450 reads 2.3 SWR
>> 24.930 reads 2.6 SWR , 24.990 reads 2.5 SWR
>> 28.300 reads 2.3SWR , 29.700 reads 2.6 SWR
>>
>> John W0TMM
>

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3252. Re: [hex-beam] Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-18 18:16:10 UTC
From: Michael Doherty
Topic: 3245 Message: 3252

Don't know much about adjusting elements on hex-beams, but here's my two cents about interpreting your swr measurments.

14.150 reads 1.6 SWR, 14.350 reads 1.9 SWR resonant frequency < 14.150
18.110 reads 2.6 SWR, 18.160 reads 2.3 SWR resonant frequency > 18.160
21.200 reads 1.9 SWR 21.450 reads 2.3 SWR resonant frequency < 21.200
24.930 reads 2.6 SWR , 24.990 reads 2.5 SWR resonant frequency > 24.990
28.300 reads 2.3SWR , 29.700 reads 2.6 SWR resonant frequency < 28.300

So, for example, the resonant frequency for 17m would actually be above the 18.110-18.160 frequency range. In this case, you can start to trim the element until you get satisfactory swr readings in that range.

For 15m, your swr measurments indicate that the element is too short for the 21.200-21.450 frequency range, and you would have to add element length to improve swr.

Let me say that the above applies to a half way dipole. I really have no experience as to what effect this would have on a hexbeam, but it's just some food for thouhgt.

Best of luck and 73's
Michael kd5wby

On 7/18/06, w0tmm <w0tmm@...> wrote:
>
> Guys, I need some input here. I have read the posts about gain and
> swr. I do not have a computer model to work with. Just an MFJ-269 SWR
> analyzer. I would like to know if there is anything else I need to do
> to optimize the antenna before I put it on the tower. My wire
> measuements I got fromthe K4KIO web site. My feedline is #8 stero amp
> wire.
>
> What I do not understand is the big difference in SWR from Band to Band.
> Is the difference just the end gap adjustment? or is it the
> interaction of the wires to one another?
>
>
> > 14.150 reads 1.6 SWR, 14.350 reads 1.9 SWR
> > 18.110 reads 2.6 SWR, 18.160 reads 2.3 SWR
> > 21.200 reads 1.9 SWR 21.450 reads 2.3 SWR
> > 24.930 reads 2.6 SWR , 24.990 reads 2.5 SWR
> > 28.300 reads 2.3SWR , 29.700 reads 2.6 SWR
> >
> > John W0TMM
>

>
>

[Non-text portions of this message have been removed]

3253. Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-18 22:16:08 UTC
From: Giancarlo Moda
Topic: 3245 Message: 3253

Hi Tom,

SWR measurements are not enough because you do not
understandif the SWR is high due to a high impedance,
plus reactive parts or lower than 50 ohm.

You may try as suggested by one colleague to remove
some of the dipoles and see what is changing.

For me you have length problems, see notes;

> 14.150 reads 1.6 SWR, 14.350 reads 1.9 SWR TOO LONG
> 18.110 reads 2.6 SWR, 18.160 reads 2.3 SWR TOO SHORT
> 21.200 reads 1.9 SWR 21.450 reads 2.3 SWR TOO LONG
> 24.930 reads 2.6 SWR , 24.990 reads 2.5SWR TOO SHORT
> 28.300 reads 2.3SWR , 29.700 reads 2.6 SWR TOO LONG
>
The SWR pattern is strange Long- Sort - Long - Short -
Long...

73

Gian
I7SWX

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3254. Re: [hex-beam] Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-19 00:43:06 UTC
From: John Cowan
Topic: 3245 Message: 3254

Michael:
I raised the Hexbeam up to 18' this evening. The swr measurements were as follows.

14.150 reads 1.4 SWR, 14.350 reads 1.5 SWR
18.110 reads 2.0 SWR, 18.160 reads 1.9 SWR 18.356 reads 1.4 SWR
21.200 reads 1.4 SWR, 21.450 reads 1.7 SWR
24.930 reads 2.2 SWR, 24.990 reads 2.0 SWR
28.300 reads 2.1 SWR, 29.700 reads 3.4 SWR

My question is to lower the resonant frequency on 17 meters from 18.356 to 18.130 do I adjust the end gap or shorten the driven element?

John W0TMM

Michael Doherty <rmdoherty@...> wrote: Don't know much about adjusting elements on hex-beams, but here's my two
cents about interpreting your swr measurments.

14.150 reads 1.6 SWR, 14.350 reads 1.9 SWR resonant frequency < 14.150
18.110 reads 2.6 SWR, 18.160 reads 2.3 SWR resonant frequency > 18.160
21.200 reads 1.9 SWR 21.450 reads 2.3 SWR resonant frequency < 21.200
24.930 reads 2.6 SWR , 24.990 reads 2.5 SWR resonant frequency > 24.990
28.300 reads 2.3SWR , 29.700 reads 2.6 SWR resonant frequency < 28.300

So, for example, the resonant frequency for 17m would actually be above the 18.110-18.160 frequency range. In this case, you can start to trim the element until you get satisfactory swr readings in that range.

For 15m, your swr measurments indicate that the element is too short for the 21.200-21.450 frequency range, and you would have to add element length to improve swr.

Let me say that the above applies to a half way dipole. I really have no experience as to what effect this would have on a hexbeam, but it's just some food for thouhgt.

Best of luck and 73's
Michael kd5wby

On 7/18/06, w0tmm wrote:
>
> Guys, I need some input here. I have read the posts about gain and
> swr. I do not have a computer model to work with. Just an MFJ-269 SWR
> analyzer. I would like to know if there is anything else I need to do
> to optimize the antenna before I put it on the tower. My wire
> measuements I got fromthe K4KIO web site. My feedline is #8 stero amp
> wire.

>
> What I do not understand is the big difference in SWR from Band to Band.
> Is the difference just the end gap adjustment? or is it the
> interaction of the wires to one another?
>
>
> > 14.150 reads 1.6 SWR, 14.350 reads 1.9 SWR
> > 18.110 reads 2.6 SWR, 18.160 reads 2.3 SWR
> > 21.200 reads 1.9 SWR 21.450 reads 2.3 SWR
> > 24.930 reads 2.6 SWR , 24.990 reads 2.5 SWR
> > 28.300 reads 2.3SWR , 29.700 reads 2.6 SWR
> >
> > John W0TMM
>
>
>

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

3255. Re: [hex-beam] Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-19 04:49:12 UTC
From: Michael Doherty
Topic: 3245 Message: 3255

If it were a dipole, you'd lengthen it to lower the resonant frequency. I don't know about adjusting the end gap. I guess that's why I bought my hexpbeam from Mike Traffie :-) I think Traffie did a lot experimenting to get his design to work.

It is interesting that you're getting improved measurements as you raise the antenna. Maybe when you raise it to it's full height you'll be right in the ball park.

73's Michael kd5wby

On 7/18/06, John Cowan <w0tmm@...> wrote:
>
> Michael:
> I raised the Hexbeam up to 18' this evening. The swr measurements were as
> follows.
>
> 14.150 reads 1.4 SWR, 14.350 reads 1.5 SWR
> 18.110 reads 2.0 SWR, 18.160 reads 1.9 SWR 18.356 reads 1.4 SWR
> 21.200 reads 1.4 SWR, 21.450 reads 1.7 SWR
> 24.930 reads 2.2 SWR, 24.990 reads 2.0 SWR
> 28.300 reads 2.1 SWR, 29.700 reads 3.4 SWR
>
> My question is to lower the resonant frequency on 17 meters from 18.356 to
> 18.130 do I adjust the end gap or shorten the driven element?
>

[Non-text portions of this message have been removed]

3256. Re: [hex-beam] Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-19 10:33:53 UTC
From: Mike Van Winkle
Topic: 3245 Message: 3256

TRaffie di a lot of playing and then reproduces the result faithfully....On 17 meters make the driven a bit longer and it will fall in ...This will have a minor effect on 20 and 15...but not much...Yes physics do not change..Indeed you are messing with a bunch of dipoles...If you get to a 1.5 to one match you age probably at best gain (dipole resonant impedance is 75 ohms)...W4HV

--- Michael Doherty <rmdoherty@...> wrote:

> If it were a dipole, you'd lengthen it to lower the
> resonant frequency. I
> don't know about adjusting the end gap. I guess
> that's why I bought my
> hexpbeam from Mike Traffie :-) I think Traffie did
> a lot experimenting to
> get his design to work.
>
> It is interesting that you're getting improved
> measurements as you raise
> the antenna. Maybe when you raise it to it's full
> height you'll be right in
> the ball park.
>
> 73's Michael kd5wby
>
> On 7/18/06, John Cowan <w0tmm@...> wrote:
> >
> > Michael:
> > I raised the Hexbeam up to 18' this evening. The
> swr measurements were as
> > follows.
> >
> > 14.150 reads 1.4 SWR, 14.350 reads 1.5 SWR
> > 18.110 reads 2.0 SWR, 18.160 reads 1.9 SWR 18.356
> reads 1.4 SWR
> > 21.200 reads 1.4 SWR, 21.450 reads 1.7 SWR
> > 24.930 reads 2.2 SWR, 24.990 reads 2.0 SWR
> > 28.300 reads 2.1 SWR, 29.700 reads 3.4 SWR
> >
> > My question is to lower the resonant frequency on
> 17 meters from 18.356 to
> > 18.130 do I adjust the end gap or shorten the
> driven element?

> >
>
>
> [Non-text portions of this message have been
> removed]
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>

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3257. Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-19 14:52:08 UTC
From: dl7io
Topic: 3245 Message: 3257

Hey John,
nice project!

Before you start measuring SWR's you have to bring the antenna to a minimum height of 4m or 12 ft. If you are lower than 4m the capacitive coupling to earth and everything around will destroy all values. Going higher from 4 m does change the SWR mostly only marginal. The element coupling is in the magnetic field component and therefore we have not that influence of the earth if we have minimum distance like known from yagis or quads.
Of course no metal roof 2m beside etc. etc.

If you change elements start only with the half of the desired/expected length per band and measure again. Measure all bands again!. The surrounding bands are also influenced while changing the length. Before cutting a wire fold it back and measure. For longering the lements use e.g. luster terminals.

Try to keep the relations of the wires, means cut both or make them both longer! Don't touch the end isolators. Try to have a higher SWR in the CW portion to have more gain.
the 2 values given for 10m are not very useful as they are to far from each other. Go for 28.0/28.3/28.7 MHz. Usually that is the range you mostly will use. If the beam is broader up to 29.x this will be fine.

I'm not sure what you used for the spreaders and elements. But if your spreaders have another shape that changes the distances between the wires. This and other kinds of wire are mostly the reasons for the differences in the final result.

I wish you success
Holger

PS. Try to install the beam at 18m instead of 18ft ;-)

--- In hex-beam@yahoogroups.com, John Cowan <w0tmm@...> wrote:
>
> Now that I have managed to get my hex beam together I am wondering exactly how to adjust the SWR. I am feeding the antenna from the top. I took a prelimnary reading 3 feet off the ground and next weekend I will raise it 18 feet in the air to get a more accurate assesment.
>
> 14.150 reads 1.6 SWR, 14.350 reads 1.9 SWR
> 18.110 reads 2.6 SWR, 18.160 reads 2.3 SWR
> 21.200 reads 1.9 SWR 21.450 reads 2.3 SWR
> 24.930 reads 2.6 SWR , 24.990 reads 2.5 SWR

> 28.300 reads 2.3SWR , 29.700 reads 2.6 SWR
>
> John W0TMM
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

3258. Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-20 23:23:04 UTC
From: John Cowan
Topic: 3245 Message: 3258

I would like to thank all of you who replied on reflector and off. I have the SWR close on all bands but 10 meters now. I am gonna work on that one tomorrow. I plotted the SWR on an graphs I made from my Excel Spreadsheet and they looke very similar to the ones posted. I posted some photos on the Hexbeam Group Photos section.

John W0TMM

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

3259. Re: [hex-beam] Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-21 01:27:19 UTC
From: John Cowan
Topic: 3245 Message: 3259

Holger:
Take a look at these attached SWR plots and tell me what you think.

John W0TMM

dl7io <dl7io@...> wrote: Hey John,
nice project!

Before you start measuring SWR's you have to bring the antenna to a minimum height of 4m or 12 ft. If you are lower than 4m the capacitive coupling to earth and everything around will destroy all values. Going higher from 4 m does change the SWR mostly only marginal. The element coupling is in the magnetic field component and therefore we have not that influence of the earth if we have minimum distance like known from yagis or quads.
Of course no metal roof 2m beside etc. etc.

If you change elements start only with the half of the desired/expected length per band and measure again. Measure all bands again!. The surrounding bands are also influenced while changing the length. Before cutting a wire fold it back and measure. For longering the lements use e.g. luster terminals.

Try to keep the relations of the wires, means cut both or make them both longer! Don't touch the end isolators. Try to have a higher SWR in the CW portion to have more gain.
the 2 values given for 10m are not very useful as they are to far from each other. Go for 28.0/28.3/28.7 MHz. Usually that is the range you mostly will use. If the beam is broader up to 29.x this will be fine.

I'm not sure what you used for the spreaders and elements. But if your spreaders have another shape that changes the distances between the wires. This and other kinds of wire are mostly the reasons for the differences in the final result.

I wish you success
Holger

PS. Try to install the beam at 18m instead of 18ft ;-)

--- In hex-beam@yahoogroups.com, John Cowan wrote:
>
> Now that I have managed to get my hex beam together I am wondering exactly how to adjust the SWR. I am feeding the antenna from the top. I took a prelimnary reading 3 feet off the ground and next weekend I will raise it 18 feet in the air to get a more accurate assesment.

>
> 14.150 reads 1.6 SWR, 14.350 reads 1.9 SWR
> 18.110 reads 2.6 SWR, 18.160 reads 2.3 SWR
> 21.200 reads 1.9 SWR 21.450 reads 2.3 SWR
> 24.930 reads 2.6 SWR , 24.990 reads 2.5 SWR
> 28.300 reads 2.3SWR , 29.700 reads 2.6 SWR
>
> John W0TMM
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

3260. Re: [hex-beam] Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-21 02:42:24 UTC
From: Mike Van Winkle
Topic: 3245 Message: 3260

hmmmmm 4 meters thats .2 lambda on 20 meters...It appears a little dipole (yagi style) theory is appearing...I am not at all surprised...Remember..The laws of physics are immutable....Dipole are dipoles even bent into a W shape....This is why the lengths vary when one moves the feed from top to bottom ...the length of the radiator changes relative to the feed point placement and the 10 or 20 meter bands...again no surprise ...look at it for what it is instead of a great antenna modeled mystery...It will reveal the great snake oils secret ingredient...Its a common feed bent fan dipole with a reflector...basic math technician class will solve all your questions...No doubt why traffie seems to want around 30 to 33 ft above ground to get optimum performance..1/4 wave on 20... THINK!!!! W4HV
--- John Cowan <w0tmm@...> wrote:

> Holger:
> Take a look at these attached SWR plots
> and tell me what you think.
>
> John W0TMM
>
> dl7io <dl7io@...> wrote: Hey John,
> nice project!
>
> Before you start measuring SWR's you have to bring
> the antenna to a
> minimum height of 4m or 12 ft. If you are lower than
> 4m the
> capacitive coupling to earth and everything around
> will destroy all
> values. Going higher from 4 m does change the SWR
> mostly only
> marginal. The element coupling is in the magnetic
> field component and
> therefore we have not that influence of the earth if
> we have minimum
> distance like known from yagis or quads.
> Of course no metal roof 2m beside etc. etc.
>
> If you change elements start only with the half of
> the
> desired/expected length per band and measure again.

> Measure all bands
> again!. The surrounding bands are also influenced
> while changing the
> length. Before cutting a wire fold it back and
> measure. For longering
> the lements use e.g. luster terminals.
>
> Try to keep the relations of the wires, means cut
> both or make them
> both longer! Don't touch the end isolators. Try to
> have a higher SWR
> in the CW portion to have more gain.
> the 2 values given for 10m are not very useful as
> they are to far
> from each other. Go for 28.0/28.3/28.7 MHz. Usually
> that is the range
> you mostly will use. If the beam is broader up to
> 29.x this will be
> fine.
>
> I'm not sure what you used for the spreaders and
> elements. But if
> your spreaders have another shape that changes the
> distances between
> the wires. This and other kinds of wire are mostly
> the reasons for
> the differences in the final result.
>
> I wish you success
> Holger
>
> PS. Try to install the beam at 18m instead of 18ft
> ;-)
>
> --- In hex-beam@yahoogroups.com, John Cowan wrote:
> >
> > Now that I have managed to get my hex beam
> together I am wondering
> exactly how to adjust the SWR. I am feeding the
> antenna from the top.
> I took a prelimnary reading 3 feet off the ground
> and next weekend I
> will raise it 18 feet in the air to get a more
> accurate assesment.
> >
> > 14.150 reads 1.6 SWR, 14.350 reads 1.9 SWR
> > 18.110 reads 2.6 SWR, 18.160 reads 2.3 SWR
> > 21.200 reads 1.9 SWR 21.450 reads 2.3 SWR
> > 24.930 reads 2.6 SWR , 24.990 reads 2.5 SWR
> > 28.300 reads 2.3SWR , 29.700 reads 2.6 SWR

> >
> > John W0TMM
> >
> >
> _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam
> protection around
> > http://mail.yahoo.com
> >
> > [Non-text portions of this message have been
> removed]
> >
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>
> Yahoo! Groups Links
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>
> ---
> Do you Yahoo!?
> Get on board. You're invited to try the new Yahoo!
> Mail Beta.
>
> [Non-text portions of this message have been
> removed]
>
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3261. My Mistake

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-21 02:44:03 UTC
From: John Cowan
Topic: 3261 Message: 3261

Sorry for clicking the wrong email. The SWR Plots were posted here by mistake.

John W0TMM

See the all-new, redesigned Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

3262. Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-21 03:01:45 UTC
From: w4wb
Topic: 3245 Message: 3262

Mike,

I must agree that thinking is good, but getting facts correct is also a fine thing to do. Traffie has always suggested the best all around height for the Hex-Beam is with the antenna base at 40 feet, which locates the 20 m elements at 43.5 feet AGL. This is the 5/8 lambda height.

I have no idea why you are interjecting "snake oil" into the discussion. Can you clarify exactly your point please?

Tnx es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...> wrote:
>
> hmmmmm 4 meters thats .2 lambda on 20 meters...It
> appears a little dipole (yagi style) theory is
> appearing...I am not at all surprised...Remember..The
> laws of physics are immutable....Dipole are dipoles
> even bent into a W shape....This is why the lengths
> vary when one moves the feed from top to bottom ...the
> length of the radiator changes relative to the feed
> point placement and the 10 or 20 meter bands...again
> no surprise ...look at it for what it is instead of a
> great antenna modeled mystery...It will reveal the
> great snake oils secret ingredient...Its a common feed
> bent fan dipole with a reflector...basic math
> technician class will solve all your questions...No
> doubt why traffie seems to want around 30 to 33 ft
> above ground to get optimum performance..1/4 wave on
> 20... THINK!!!! W4HV

3263. Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-21 08:29:58 UTC
From: dl7io
Topic: 3245 Message: 3263

Mike,
I'm not talking about the best height for "optimmum performance".
I'm talking about the minimum height needed before doing SWR
measurements. You need 4m or more to minimize the big influence of
capacitive coupling to the ground.
Sorry if that was not clearly written in my last posting.
73 Holger

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...>
wrote:
>
> hmmmmm 4 meters thats .2 lambda on 20 meters...It
> appears a little dipole (yagi style) theory is
> appearing...I am not at all surprised...Remember..The
> laws of physics are immutable....Dipole are dipoles
> even bent into a W shape....This is why the lengths
> vary when one moves the feed from top to bottom ...the
> length of the radiator changes relative to the feed
> point placement and the 10 or 20 meter bands...again
> no surprise ...look at it for what it is instead of a
> great antenna modeled mystery...It will reveal the
> great snake oils secret ingredient...Its a common feed
> bent fan dipole with a reflector...basic math
> technician class will solve all your questions...No
> doubt why traffie seems to want around 30 to 33 ft
> above ground to get optimum performance..1/4 wave on
> 20... THINK!!!! W4HV

3264. Re: [hex-beam] Re: Hexbeam SWR

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-21 11:36:55 UTC
From: Mike Van Winkle
Topic: 3245 Message: 3264

Holger , No I understood completely...They work better
a bit higher but my point is still the same..Its basic
antenna theory.. We commonly call it ground losses,
capacitive coupling and or ground reflection. Oh yes
its quite obvious...Just Like a standard yagi, the
Driven element must be .2 to .25 Lambda separated from
any reflector to tune it...The ground also works as a
reflector allbeit a less than perfect one...

--- dl7io <dl7io@...> wrote:

> Mike,
> I'm not talking about the best height for "optimmum
> performance".
> I'm talking about the minimum height needed before
> doing SWR
> measurements. You need 4m or more to minimize the
> big influence of
> capacitive coupling to the ground.
> Sorry if that was not clearly written in my last
> posting.
> 73 Holger
>
> --- In hex-beam@yahoogroups.com, Mike Van Winkle
> <janmike2001@...>
> wrote:
> >
> > hmmmmm 4 meters thats .2 lambda on 20 meters...It
> > appears a little dipole (yagi style) theory is
> > appearing...I am not at all
> surprised...Remember..The
> > laws of physics are immutable....Dipole are
> dipoles
> > even bent into a W shape....This is why the
> lengths
> > vary when one moves the feed from top to bottom
> ...the
> > length of the radiator changes relative to the
> feed
> > point placement and the 10 or 20 meter
> bands...again
> > no surprise ...look at it for what it is instead
> of a
> > great antenna modeled mystery...It will reveal the
> > great snake oils secret ingredient...Its a common

> feed
> > bent fan dipole with a reflector...basic math
> > technician class will solve all your
> questions...No
> > doubt why traffie seems to want around 30 to 33 ft
> > above ground to get optimum performance..1/4 wave
> on
> > 20... THINK!!!! W4HV
>
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>
>

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3265. Insulated Wire for Antenna Elements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-21 19:42:07 UTC
From: douglis88
Topic: 3265 Message: 3265

Here is the story that explains why I prefer to use insulated wire for my antenna elements.

Forty years ago I was a teenager sitting at my desk doing homework for school. My coax connector had been unplugged from rig and was laying on that same desk. Suddenly, I heard and saw blue sparks dancing across the varnished surface of that wood desk. The sparks were coming from the loose coax connector. I ran outside and looked up at my quad. Guess what. There was a heavy snow falling, the kind of snow with big fluffy flakes. The bare wire on my quad was picking up a static charge from the falling snow. There was no lightning in the area.

I have heard the term "rain static" before. I wonder if it can be charged rain drops touching on the bare antenna wire, like scratching on your bare car antenna with a metal key. Does rain static occur only on bare antennas?

Since this experience, I have always used insulated wire for my antennas. Also, I provide a grounded connector in my shack as the resting place for disconnected feedline.

I wonder if anyone had similar experience. I wonder is anyone agrees with my theory about "rain static".

Doug VE3EFC
http://ve3efc.ca

3266. Re: [hex-beam] Insulated Wire for Antenna Elements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-22 01:20:55 UTC
From: Hello
Topic: 3265 Message: 3266

it not only happenes on wire antenna's but I had a tri band beam up in the air and the wx was perfect no rain and the sun was out ..it was a nice day .....well the coax connecter was not hooked to any radio and was open but i moved it and it fell against a metal cabinet and sparked and burned a big hole in it so there you go it does happen
----- Original Message -----
From: douglis88
To: hex-beam@yahoogroups.com
Sent: Friday, July 21, 2006 12:42 PM
Subject: [hex-beam] Insulated Wire for Antenna Elements

Here is the story that explains why I prefer to use insulated wire for my antenna elements.

Forty years ago I was a teenager sitting at my desk doing homework for school. My coax connector had been unplugged from rig and was laying on that same desk. Suddenly, I heard and saw blue sparks dancing across the varnished surface of that wood desk. The sparks were coming from the loose coax connector. I ran outside and looked up at my quad. Guess what. There was a heavy snow falling, the kind of snow with big fluffy flakes. The bare wire on my quad was picking up a static charge from the falling snow. There was no lightning in the area.

I have heard the term "rain static" before. I wonder if it can be charged rain drops touching on the bare antenna wire, like scratching on your bare car antenna with a metal key. Does rain static occur only on bare antennas?

Since this experience, I have always used insulated wire for my antennas. Also, I provide a grounded connector in my shack as the resting place for disconnected feedline.

I wonder if anyone had similar experience. I wonder is anyone agrees with my theory about "rain static".

Doug VE3EFC
http://ve3efc.ca

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date: 7/21/2006

[Non-text portions of this message have been removed]

3267. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-22 21:30:21 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 3267

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /Hexbeam SWR Plots.xls
Uploaded by : w0tmm <w0tmm@...>
Description : W0TMM 5 BAND HEXBEAM SWR PLOTS

You can access this file at the URL:
http://groups.yahoo.com/group/hex-beam/files/Hexbeam%20SWR%20Plots.xls

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

w0tmm <w0tmm@...>

3268. Need HX5-B Assembly Manual

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-23 15:05:45 UTC
From: Ron Everett
Topic: 3268 Message: 3268

Hi,

I am going to be getting a disassembled 5 band HEX Beam soon, model HX5-B, but without the installation/assembly manual. Does anyone have a copy one that could be sent to me via email? Or if not, is there a place on the interest I could go to download one?

You help is greatly appreciated.

73's
W5RAE
Ron Everett
Plano, Texas
Mailto: w5rae@...

3269. Re: [hex-beam] Need HX5-B Assembly Manual

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-23 18:01:37 UTC
From: K7Max
Topic: 3268 Message: 3269

Hi Ron; do you have a direct email address other than ARRL.net?
Max

----- Original Message -----
From: "Ron Everett" <w5rae@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, July 23, 2006 8:05 AM
Subject: [hex-beam] Need HX5-B Assembly Manual

> Hi,
>
> I am going to be getting a disassembled 5 band HEX Beam soon, model
> HX5-B, but without the installation/assembly manual. Does anyone have
> a copy one that could be sent to me via email? Or if not, is there a
> place on the interest I could go to download one?
>
> You help is greatly appreciated.
>
> 73's
> W5RAE
> Ron Everett
> Plano, Texas
> Mailto: w5rae@...

[Non-text portions of this message have been removed]

3270. Re: Need HX5-B Assembly Manual

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-23 20:19:50 UTC
From: Ron Everett
Topic: 3268 Message: 3270

To all,

I got copies of the manual and I thank you for your quick response.

73 & Gud DXing,

Ron
W5RAE

--- In hex-beam@yahoogroups.com, "Ron Everett" <w5rae@...> wrote:
>
> Hi,
>
> I am going to be getting a disassembled 5 band HEX Beam soon,
model
> HX5-B, but without the installation/assembly manual. Does anyone
have
> a copy one that could be sent to me via email? Or if not, is
there a
> place on the interest I could go to download one?
>
> You help is greatly appreciated.
>
> 73's
> W5RAE
> Ron Everett
> Plano, Texas
> Mailto: w5rae@...
>

3271. Re: [hex-beam] Need HX5-B Assembly Manual

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-24 17:13:59 UTC
From: Hello
Topic: 3268 Message: 3271

I also would appreciate a copy of the manual if its not to much trouble ..Thanks Larry
----- Original Message -----
From: K7Max
To: hex-beam@yahoogroups.com
Sent: Sunday, July 23, 2006 11:01 AM
Subject: Re: [hex-beam] Need HX5-B Assembly Manual

Hi Ron; do you have a direct email address other than ARRL.net?
Max

----- Original Message -----
From: "Ron Everett" <w5rae@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, July 23, 2006 8:05 AM
Subject: [hex-beam] Need HX5-B Assembly Manual

> Hi,
>
> I am going to be getting a disassembled 5 band HEX Beam soon, model
> HX5-B, but without the installation/assembly manual. Does anyone have
> a copy one that could be sent to me via email? Or if not, is there a
> place on the interest I could go to download one?
>
> You help is greatly appreciated.
>
> 73's
> W5RAE
> Ron Everett
> Plano, Texas
> Mailto: w5rae@...

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date: 7/21/2006

[Non-text portions of this message have been removed]

3272. Re: Need HX5-B Assembly Manual

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-24 18:47:14 UTC
From: ownsyar
Topic: 3268 Message: 3272

Hi,
Excuse my piling on, but I would like to see the manual also.
Many thanks.
Allen KA5N
allencward@...

--- In hex-beam@yahoogroups.com, "Hello" <ag8o1@...> wrote:
>
> I also would appreciate a copy of the manual if its not to much
trouble ..Thanks Larry
> ----- Original Message -----
> From: K7Max
> To: hex-beam@yahoogroups.com
> Sent: Sunday, July 23, 2006 11:01 AM
> Subject: Re: [hex-beam] Need HX5-B Assembly Manual
>
>
> Hi Ron; do you have a direct email address other than ARRL.net?
> Max
>
> ----- Original Message -----
> From: "Ron Everett" <w5rae@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Sunday, July 23, 2006 8:05 AM
> Subject: [hex-beam] Need HX5-B Assembly Manual
>
> > Hi,
> >
> > I am going to be getting a disassembled 5 band HEX Beam soon,
model
> > HX5-B, but without the installation/assembly manual. Does
anyone have
> > a copy one that could be sent to me via email? Or if not, is
there a
> > place on the interest I could go to download one?
> >
> > You help is greatly appreciated.
> >
> > 73's
> > W5RAE
> > Ron Everett
> > Plano, Texas
> > Mailto: w5rae@...
>
> [Non-text portions of this message have been removed]

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> ----------

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date:
7/21/2006
>
>
> [Non-text portions of this message have been removed]
>

3273. Re: Need HX5-B Assembly Manual

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-24 23:21:42 UTC
From: Mark
Topic: 3268 Message: 3273

Would be nice if it could be posted.

73,
Mark N3GNW

--- In hex-beam@yahoogroups.com, "ownsyar" <ownsyar@...> wrote:
>
>
> Hi,
> Excuse my piling on, but I would like to see the manual also.
> Many thanks.
> Allen KA5N
> allencward@...
>
>
>
> --- In hex-beam@yahoogroups.com, "Hello" <ag8o1@> wrote:
> >
> > I also would appreciate a copy of the manual if its not to much
> trouble ..Thanks Larry
> > ----- Original Message -----
> > From: K7Max
> > To: hex-beam@yahoogroups.com
> > Sent: Sunday, July 23, 2006 11:01 AM
> > Subject: Re: [hex-beam] Need HX5-B Assembly Manual
> >
> >
> > Hi Ron; do you have a direct email address other than ARRL.net?
> > Max
> >
> > ----- Original Message -----
> > From: "Ron Everett" <w5rae@>
> > To: <hex-beam@yahoogroups.com>
> > Sent: Sunday, July 23, 2006 8:05 AM
> > Subject: [hex-beam] Need HX5-B Assembly Manual
> >
> > > Hi,
> > >
> > > I am going to be getting a disassembled 5 band HEX Beam
soon,
> model
> > > HX5-B, but without the installation/assembly manual. Does
> anyone have
> > > a copy one that could be sent to me via email? Or if not, is
> there a

> > > place on the interest I could go to download one?
> > >
> > > You help is greatly appreciated.
> > >
> > > 73's
> > > W5RAE
> > > Ron Everett
> > > Plano, Texas
> > > Mailto: w5rae@
> >
> > [Non-text portions of this message have been removed]
> >
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> ----------
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.394 / Virus Database: 268.10.3/395 - Release
Date:
> 7/21/2006
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

3274. HB & Support Mast Help

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-24 23:41:12 UTC
From: Jim Chaggaris
Topic: 3274 Message: 3274

Greetings, I am currently thinking of buying a 5 band Hex beam to replace my so-so performing vertical. I want to mount it up about 45 feet on a push-up mast. Any thoughts on what's available out there at a reasonable price?

Also, are the aluminum stackable masts available on Ebay and elsewhere sufficient?

What about base mounts for permanent installations? I'd like to avoid sinking the mast into a concrete base for now. GAP offers a tilt base that looks interesting but seems light-duty to me and rather pricey.

Any help would be appreciated.

73's

Jim N9WW

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 110
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241

3275. RE: [hex-beam] Re: Need HX5-B Assembly Manual

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-24 19:22:50 UTC
From: Paul MW0CDO
Topic: 3268 Message: 3275

Hi Max,

I would also be very grateful for a copy of the manual.

email to mw0cdo at gmail dot com

As many of us are interested, why not post it at Yousendit?
Many people could then download and also saves you email time..

HYPERLINK "http://www.yousendit.com"http://www.yousendit.com

Or even post a copy in the group files area...

Cheers!

73 Paul MW0CDO.

From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf
Of ownsyar
Sent: 24 July 2006 19:47
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Need HX5-B Assembly Manual

,

> ----- Original Message -----
> From: K7Max
> To: HYPERLINK "mailto:hex-beam%40yahoogroups.com"hex-beam@...

> Sent: Sunday, July 23, 2006 11:01 AM
> Subject: Re: [hex-beam] Need HX5-B Assembly Manual
>
>
> Hi Ron; do you have a direct email address other than ARRL.net?
> Max

HYPERLINK
"http://geo.yahoo.com/serv?s=97359714&grpId=4455153&grpspId=1600063108&msgId
=3272&stime=1153767151"

--
No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.4/396 - Release Date: 24/07/2006

[Non-text portions of this message have been removed]

3276. Re: [hex-beam] Re: Need HX5-B Assembly Manual

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-25 10:22:32 UTC
From: mike hardy
Topic: 3268 Message: 3276

hi all,
im in the the middle of putting a hexbeam up just putting tower up cage then
its put the beam up
i would like to see the manual as well please .
thanks for the use of this groupe i have learn't so much.
Mike Hardy
M0FCG - M1KEY - 2E0KEY
mob - 07791754432
email: m0fcg1@...
talk on skype im m0fcg1

http://www.wolfpackhd2.tk/

>
> Hi,
> Excuse my piling on, but I would like to see the manual also.
> Many thanks.
> Allen KA5N
> allencward@...
>
>
>
> --- In hex-beam@yahoogroups.com, "Hello" <ag8o1@...> wrote:
> >
> > I also would appreciate a copy of the manual if its not to much
> trouble ..Thanks Larry
> > ----- Original Message -----
> > From: K7Max
> > To: hex-beam@yahoogroups.com
> > Sent: Sunday, July 23, 2006 11:01 AM
> > Subject: Re: [hex-beam] Need HX5-B Assembly Manual
> >
> >
> > Hi Ron; do you have a direct email address other than ARRL.net?
> > Max
> >
> > ----- Original Message -----
> > From: "Ron Everett" <w5rae@...>
> > To: <hex-beam@yahoogroups.com>
> > Sent: Sunday, July 23, 2006 8:05 AM
> > Subject: [hex-beam] Need HX5-B Assembly Manual
> >
> > > Hi,
> > >
> > > I am going to be getting a disassembled 5 band HEX Beam soon,

> model
> > > HX5-B, but without the installation/assembly manual. Does
> anyone have
> > > a copy one that could be sent to me via email? Or if not, is
> there a
> > > place on the interest I could go to download one?
> > >
> > > You help is greatly appreciated.
> > >
> > > 73's
> > > W5RAE
> > > Ron Everett
> > > Plano, Texas
> > > Mailto: w5rae@...
> >
> > [Non-text portions of this message have been removed]
> >
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> > ----------
> ----------
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date:
> 7/21/2006
> >
> >
> > [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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3277. Re: [hex-beam] HB & Support Mast Help

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-25 13:34:34 UTC
From: bur52@aol.com
Topic: 3274 Message: 3277

Hi Jim
I use a Rohn 50 foot push up. I discarded the upper most 10 foot section, it seemed a little to Skinny...and light for the rotor and beam. I have it bracketed to the rear of my qth, and guyed. Works great so far. It has withstood 70 mph winds here on the east coast.
I think I paid about $130.00 shipped.
good luck
JohnB
k3jvb

[Non-text portions of this message have been removed]

3278. Re: [hex-beam] HB & Support Mast Help

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-25 15:25:42 UTC
From: Harold Burton
Topic: 3274 Message: 3278

I think you made the right decision. I Have an old 40 foot pushup on my 20M monoband Hexbeam. We got an unusual springlike winter thunderstorm line thru here last January. Its high winds broke one of my spreaders loose from the hub and blew it over the top of the Hex. In addition I had my rotor mounted on 4 feet of the skinny top section of my pushup mast and the wind actually bent the top section slightly. I didn't remove the top section, but I did cut off the bent piece and only extended the remainder 2 feet to cut down on the winds leverage moment. Good luck with your mast.

Harold
KD5SAK
----- Original Message -----
From: <bur52@...>
To: <hex-beam@yahoogroups.com>
Sent: Tuesday, July 25, 2006 8:34 AM
Subject: Re: [hex-beam] HB & Support Mast Help

> Hi Jim
> I use a Rohn 50 foot push up. I discarded the upper most 10 foot
> section, it
> seemed a little to Skinny...and light for the rotor and beam. I have
> it
> bracketed to the rear of my qth, and guyed. Works great so far. It has
> withstood
> 70 mph winds here on the east coast.
> I think I paid about $130.00 shipped.
> good luck
> JohnB
> k3jvb
>
>
> [Non-text portions of this message have been removed]
>
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>
> ---------- Yahoo! Groups
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>
> Yahoo! Groups Links
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> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.4/396 - Release Date:
> 7/24/2006
>
>

3279. Re: [hex-beam] HB & Support Mast Help

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-25 16:07:17 UTC
From: Pat Villani
Topic: 3274 Message: 3279

Hi Folks,

This thread comes up at a very good time. I'm putting together a 20m monobander hex and was planning on using the Gap tilt base as part of the support system. But I have a need to make the whole thing self supporting. I can't use guys. I have a 25 foot mast elsewhere in the yard supporting an inverted V and the XYL is complaining about the guys. In addition, my lawn service is constantly running into them and chopping them up.

I was thinking about using the Gap base and supporting the mast part way up by bracing it against the house about 10 feet up. I have a new 33 foot push up I bought from Radio Shack some time back, but rejected using it because it seems to me that it just won't do without guys. I was planning on getting a 20 foot, thick wall aluminum pipe and using it as the main mast, with the hex mounted on top of a 5 foot mast and rotor, with no guys. A trade off in height, but better than nothing.

Does this sound viable?

Pat
WB2GBF

3280. Re: HB & Support Mast Help

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-25 18:51:58 UTC
From: w4wb
Topic: 3274 Message: 3280

Hi Pat,

I would suggest that you get another mast that is 40' or 50' long and allow the section to overlap several feet. You then drill a hole through the overlapped sections and secure with a SS bolt. This takes a rather limp pole and turns it into something quite stiff. Bracing at 10' will help at lot too. You should 25-30' easy this way, and it will withstand reasonable strong winds, but not 60+ mph with a good head load of 20-25 pounds. The thickwall AL pipe is not going to withstand strong winds. What is much better is to use thick-wall SS pipe. It can flex a lot and does yield as will the AL pipe. I had a 25' tall GAP Titan mounted on such a SS pipe about 8' AGL and about 3.5' in the ground. NO GUYS at all. It has withstood strong winds well over 60 mph. Yes, it does bend over some, but recovers just as one would hope. Now the problem ... thick-wall SS pipe is $$$.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, Pat Villani <patv@...> wrote:
>
> Hi Folks,
>
> This thread comes up at a very good time. I'm putting together a 20m
> monobander hex and was planning on using the Gap tilt base as part of
> the support system. But I have a need to make the whole thing self
> supporting. I can't use guys. I have a 25 foot mast elsewhere in the
> yard supporting an inverted V and the XYL is complaining about the
> guys. In addition, my lawn service is constantly running into them and
> chopping them up.
>
> I was thinking about using the Gap base and supporting the mast part way
> up by bracing it against the house about 10 feet up. I have a new 33
> foot push up I bought from Radio Shack some time back, but rejected
> using it because it seems to me that it just won't do without guys. I
> was planning on getting a 20 foot, thick wall aluminum pipe and

using it
> as the main mast, with the hex mounted on top of a 5 foot mast and
> rotor, with no guys. A trade off in height, but better than
nothing.
>
> Does this sound viable?
>
> Pat
> WB2GBF
>

3281. Re: [hex-beam] HB & Support Mast Help

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-25 21:43:01 UTC
From: John Lepire
Topic: 3274 Message: 3281

im useing a rohn puch up pole for my mosley beam , and its worked great lol ;-) . hardest part was pusing it (40 lbs) up form a ladder .
----- Original Message -----
From: bur52@...
To: hex-beam@yahoogroups.com
Sent: Tuesday, July 25, 2006 8:34 AM
Subject: Re: [hex-beam] HB & Support Mast Help

Hi Jim
I use a Rohn 50 foot push up. I discarded the upper most 10 foot section, it seemed a little to Skinny...and light for the rotor and beam. I have it bracketed to the rear of my qth, and guyed. Works great so far. It has withstood 70 mph winds here on the east coast.
I think I paid about $130.00 shipped.
good luck
JohnB
k3jvb

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3282. RE: [hex-beam] HB & Support Mast Help

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-25 22:38:00 UTC
From: Jim Chaggaris
Topic: 3274 Message: 3282

Thanks for all those that responded. I'm still wondering if the thick-wall 1 7/8" diameter aluminum military mast (in 4' lengths) that sells on Ebay would be a viable option. I have about 50 feet of it with the guy rings etc..It seems pretty heavy duty and if I bolt each section together and guy the mast in at least 2 places, I feel it just might be suitable. Any thoughts?

73's

Jim N9WW

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 110
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241

From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of John Lepire
Sent: Tuesday, July 25, 2006 4:43 PM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] HB & Support Mast Help

im useing a rohn puch up pole for my mosley beam , and its worked great lol ;-) . hardest part was pusing it (40 lbs) up form a ladder .
----- Original Message -----
From: bur52@... <mailto:bur52%40aol.com>
To: hex-beam@yahoogroup <mailto:hex-beam%40yahoogroups.com> s.com
Sent: Tuesday, July 25, 2006 8:34 AM
Subject: Re: [hex-beam] HB & Support Mast Help

Hi Jim
I use a Rohn 50 foot push up. I discarded the upper most 10 foot section, it

seemed a little to Skinny...and light for the rotor and beam. I have it bracketed to the rear of my qth, and guyed. Works great so far. It has withstood
70 mph winds here on the east coast.
I think I paid about $130.00 shipped.
good luck
JohnB

k3jvb

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3283. EZNEC Modeling

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-26 15:35:00 UTC
From: douglis88
Topic: 3283 Message: 3283

I am not an expert in antenna theory, but I purchased the EZNEC program last week and spent many hours modeling hex beams. The program is rather awkward to use, but its a lot easier than building real antennas (hi). I have modeled only simple mono-band hex beams so far. I have tried many combinations of end spacing and center spacing between elements. I tried many length differences between driven and reflector. I tried many distortions to the classic "W" geometry. I tried pointing it slightly upward and downward. Its like a treasure hunt to discover the magic combination. I have three conclusions to report at this time:

1) It seems the performance is vastly improved if you feed the antenna below its resonant frequency. When I feed at resonance, the SWR is near 1:1, but the gain is only 7 to 8 db and the F/B is only 3 to 4 db. If I feed slightly above resonance, the SWR increases slightly, but the antenna becomes almost omni-diretional, like a vertical. Now here is the good news... If I lower my frequency about 200 to 300 Khz BELOW resonance, the SWR becomes 3 to 4, but the gain jumps to 12 db and the F/B jumps to 20 db+. I see this same effect on all my models, regardless of other factors. My conclusion is to always "under feed" a hex beam.

2) I tried to improve the vertical radiation angle by tilting the antenna slightly downward, and/or playing with sloping elements. It seems if you want a better angle for DX, you need the simply raise the antenna higher. Nothing else has much effect.

3) I tried various lengths for the reflector. If I make it too long, there are two dips in the SWR curve and the overall performance is not good. If I make the reflector identical to the driven, it still reflects very well, but the bandwidth is slighly narrower. I tried to force it to act as director by making it even shorter, but no way. It won't act as director no matter what I do. If I leave a large gap say 2 to 5 feet between the two W's I get better gain and F/B ratios.

73,
Doug VE3EFC
http://ve3efc.ca

3284. Hexbeam Model

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-26 23:21:48 UTC
From: w4wb
Topic: 3284 Message: 3284

Hi Doug,

Sounds like you have been having way too much fun!

Traffie has made hundreds of HBs over the years and has climb up and down the towers several thousand times he has told me. I know for a fact that when he was developing the 30-40 m Hexbeam for me a couple of years ago, he/we ran into a great surprise! The 40 m monoband was normal enough to do (only a handful have ever been made), but then Mike suggested to me that 30 m be added if I didn't care ... like who wouldn't want another band, right? Well, what we thought would be maybe a few days of effort to get it right, turned into many months more effort. Not continuous, but included head scratching time too.

One thing you notice is that you don't want to be right at resonance. The optimum is when the SWR is about 1.4:1 (about 35 ohms). The SWR rises rapidly at the low end and slowly as you go up. Best performance (gain and SWR) is between the min. SWR and the fast rising region ... not an overly wide spectrum.

Back to the 30-40 m HB ... after he got what seemed to be a "hot-to-trot" tuning for the phone band (feed for this one is better from bottom rather than top), I reminded him that I'm really more interested in CW operation on 40 m than phone. No problem, right? Wrong. Trying to do the standard retune of the elment to slide down about 150 kHz proved to be a true head scratcher. The antenna performance just fell apart going to CW. Bummer. He had never seen this before on the higher band HBs. Anyway, after a bunch more testing and experimentation, he got it to work and does it work well!

I also note that the TOA is lower than you find with a NEC model. Best I can figure out, this has to do with NEC not accounting for the incident field on the 3 other sections of the driven element from each segment on the other portion of the driven element. On receive, it is better. Actual probe measurements have demonstrated this.

In any case, Traffie has developed a solid understanding of what make his antenna really sing.

73,
Barry W4WB

3285. Re: [hex-beam] EZNEC Modeling

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-26 23:49:43 UTC
From: Mike Van Winkle
Topic: 3283 Message: 3285

now based on his experiments (and yes it works in the real world...A hex designed with the below resonance model would perform exceptionally well with a 3 to 1 balun used at the feed point...viola the great secret of many antennas ..since they aren't 50 ohm a matching device is needed...The great thing is that this would make the rig happy and get rid of the need for chokes or beads or etc...Hmmmm now why not wind it on the center pole and put an SO-239 there to connect up to ....WAIT we could do it!...(Yep It Will WORK!!)...W4HV
--- douglis88 <douglas@...> wrote:

> I am not an expert in antenna theory, but I
> purchased the EZNEC
> program last week and spent many hours modeling hex
> beams. The
> program is rather awkward to use, but its a lot
> easier than building
> real antennas (hi). I have modeled only simple
> mono-band hex beams so
> far. I have tried many combinations of end spacing
> and center spacing
> between elements. I tried many length differences
> between driven and
> reflector. I tried many distortions to the classic
> "W" geometry. I
> tried pointing it slightly upward and downward. Its
> like a treasure
> hunt to discover the magic combination. I have
> three conclusions to
> report at this time:
>
> 1) It seems the performance is vastly improved if
> you feed the antenna
> below its resonant frequency. When I feed at
> resonance, the SWR is
> near 1:1, but the gain is only 7 to 8 db and the F/B
> is only 3 to 4
> db. If I feed slightly above resonance, the SWR
> increases slightly,
> but the antenna becomes almost omni-diretional, like
> a vertical. Now
> here is the good news... If I lower my frequency
> about 200 to 300 Khz
> BELOW resonance, the SWR becomes 3 to 4, but the

> gain jumps to 12 db
> and the F/B jumps to 20 db+. I see this same
> effect on all my
> models, regardless of other factors. My conclusion
> is to always
> "under feed" a hex beam.
>
> 2) I tried to improve the vertical radiation angle
> by tilting the
> antenna slightly downward, and/or playing with
> sloping elements. It
> seems if you want a better angle for DX, you need
> the simply raise the
> antenna higher. Nothing else has much effect.
>
> 3) I tried various lengths for the reflector. If I
> make it too long,
> there are two dips in the SWR curve and the overall
> performance is not
> good. If I make the reflector identical to the
> driven, it still
> reflects very well, but the bandwidth is slighly
> narrower. I tried to
> force it to act as director by making it even
> shorter, but no way. It
> won't act as director no matter what I do. If I
> leave a large gap say
> 2 to 5 feet between the two W's I get better gain
> and F/B ratios.
>
> 73,
> Doug VE3EFC
> http://ve3efc.ca
>
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3286. Re: EZNEC Modeling

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-27 01:37:14 UTC
From: w4wb
Topic: 3283 Message: 3286

Doug,

FWIW, attempts to follow the balum path have been tried by Traffie and others, but were found not to work nearly as well as the feed method he uses for the commerical version. But maybe you are more clever in implementing the balun and can achieve improved performance. It would be most welcome I'm sure.

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...>
wrote:
>
> now based on his experiments (and yes it works in the
> real world...A hex designed with the below resonance
> model would perform exceptionally well with a 3 to 1
> balun used at the feed point...viola the great secret
> of many antennas ..since they aren't 50 ohm a matching
> device is needed...The great thing is that this would
> make the rig happy and get rid of the need for chokes
> or beads or etc...Hmmmm now why not wind it on the
> center pole and put an SO-239 there to connect up to
> ....WAIT we could do it!...(Yep It Will WORK!!)...W4HV
> --- douglis88 <douglas@...> wrote:
>

3287. Re: EZNEC Modeling

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-27 01:39:31 UTC
From: w4wb
Topic: 3283 Message: 3287

Opps, I meant Mike rather than Doug. My apologies.
73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@...> wrote:
>
> Doug,
>
> FWIW, attempts to follow the balum path have been tried by Traffie
> and others, but were found not to work nearly as well as the feed
> method he uses for the commerical version. But maybe you are more
> clever in implementing the balun and can achieve improved
> performance. It would be most welcome I'm sure.
>
> 73,
> Barry W4WB

3288. Re: EZNEC Modeling

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-31 16:06:41 UTC
From: dl7io
Topic: 3283 Message: 3288

Hello Doug,
try your antenna SWR with a 25 Ohm feedpoint resistance and you will
get gain and good SWR together. For a monoband version I suggest
this. Feeding is easy via a 1/4 wave coax stub.
This is know from other 2 element beams (X-beam, reflected M) as well.
If you go for a multiband version with a common feedline you have to
make some compromises in performance if you like to feed all bands
together.
This is what you found out.

Barry:
Regarding the 30/40m version I had a lot of modelling to do as well.
And the best results where far out of sometimes published relations
for elements and insulators.

I wonder why Traffie again is feeding the beam from the top. I cannot
see any advantage for this. There is no better gain or easier
handling etc. All my beams are fed at the bottom element (20m+ and
40m+ designs). I have published the design for a 30/40m beam about
2.5 years ago from now. So he could start his beam based on this.
73 Holger

--- In hex-beam@yahoogroups.com, "douglis88" <douglas@...> wrote:
>
> I am not an expert in antenna theory, but I purchased the EZNEC
> program last week and spent many hours modeling hex beams. The
> program is rather awkward to use, but its a lot easier than building
> real antennas (hi). I have modeled only simple mono-band hex beams
so
> far. I have tried many combinations of end spacing and center
spacing
> between elements. I tried many length differences between driven
and
> reflector. I tried many distortions to the classic "W" geometry. I
> tried pointing it slightly upward and downward. Its like a treasure
> hunt to discover the magic combination. I have three conclusions to
> report at this time:
>
> 1) It seems the performance is vastly improved if you feed the
antenna
> below its resonant frequency. When I feed at resonance, the SWR is
> near 1:1, but the gain is only 7 to 8 db and the F/B is only 3 to 4
> db. If I feed slightly above resonance, the SWR increases slightly,
> but the antenna becomes almost omni-diretional, like a vertical.
Now
> here is the good news... If I lower my frequency about 200 to 300

Khz
> BELOW resonance, the SWR becomes 3 to 4, but the gain jumps to 12 db
> and the F/B jumps to 20 db+. I see this same effect on all my
> models, regardless of other factors. My conclusion is to always
> "under feed" a hex beam.
>
> 2) I tried to improve the vertical radiation angle by tilting the
> antenna slightly downward, and/or playing with sloping elements. It
> seems if you want a better angle for DX, you need the simply raise
the
> antenna higher. Nothing else has much effect.
>
> 3) I tried various lengths for the reflector. If I make it too
long,
> there are two dips in the SWR curve and the overall performance is
not
> good. If I make the reflector identical to the driven, it still
> reflects very well, but the bandwidth is slighly narrower. I tried
to
> force it to act as director by making it even shorter, but no way.
It
> won't act as director no matter what I do. If I leave a large gap
say
> 2 to 5 feet between the two W's I get better gain and F/B ratios.
>
> 73,
> Doug VE3EFC
> http://ve3efc.ca
>

3289. Re: [hex-beam] Toroids for HexBeam and RFI Suppressions

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-07-31 23:43:26 UTC
From: Transpacific
Topic: 3148 Message: 3289

Duke, I need some toroids for TV interference and computer speaker interference . WhaT DO YOU HAVE?

Tom WA7OB fellow hex beamer
----- Original Message -----
From: Duke - NA1A
To: hex-beam@yahoogroups.com
Sent: Saturday, April 29, 2006 10:43 PM
Subject: [hex-beam] Toroids for HexBeam and RFI Suppressions

Just got in some of the very best extra heavy duty toroids usable in RFI suppressions. These are snap-on ferrite toroids. They fit very well over 9913 or RG8 type coax. Other sizes are also available.
Anyone interested e-mail me directly for picture and more infos.
NA1A@...

<!-- |**|end egp html banner|**| -->

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Ferrite bead

YAHOO! GROUPS LINKS

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b.. To unsubscribe from this group, send an email to:
hex-beam-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.5.1/327 - Release Date: 4/28/2006

[Non-text portions of this message have been removed]

3290. Re: [hex-beam] Toroids for HexBeam and RFI Suppressions

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-01 02:20:55 UTC
From: Duke - NA1A
Topic: 3148 Message: 3290

Tom,
I got just what you're looking for. I have them in three different sizes. Attached is a picture.
The small one fits well over the RG-59 type cable. The mid size (middle one) fits snuggly over the RG-8U or 9913 type coax and the large one fits loosely over the RG-8U or 9913 coax. The large one has the most core and suppresses the most.
Price is $1.50/small, $1.85/mid, $2.65/large.
Lots of people bought the mid size ones to use as RF choke on the HexBeam. Any of them can suppress and eliminate the RFI problem that you have, just depends on what you need.
73,
Duke - NA1A
Website: http://NA1A.US

-- "Transpacific" <transpacific@...> wrote:
Duke, I need some toroids for TV interference and computer speaker interference . WhaT DO YOU HAVE?

Tom WA7OB fellow hex beamer
----- Original Message -----
From: Duke - NA1A
To: hex-beam@yahoogroups.com
Sent: Saturday, April 29, 2006 10:43 PM
Subject: [hex-beam] Toroids for HexBeam and RFI Suppressions

Just got in some of the very best extra heavy duty toroids usable in RFI suppressions.
These are snap-on ferrite toroids. They fit very well over 9913 or RG8 type coax. Other sizes are also available.
Anyone interested e-mail me directly for picture and more infos.
NA1A@...

<!-- |**|end egp html banner|**| -->

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Ferrite bead

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No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.5.1/327 - Release Date: 4/28/2006

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3291. Re: [hex-beam] Re: EZNEC Modeling

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-01 12:20:35 UTC
From: Mike Van Winkle
Topic: 3283 Message: 3291

Traffie feeds from the top probably to maximize 20 meter performance on his 5 bander..,,,The reality check here is that if you add the length of the feed to your element lengths you get full sized dipoles. If you allow the parallel line feeds to be part of the antenna, they have little actual use other than feed.. THEY HAVE NO CAPTURE EFFECT...and little radition...Feed at bottom maxes 10 meters..Feed at top maxes longest band,,,

--- dl7io <dl7io@...> wrote:

> Hello Doug,
> try your antenna SWR with a 25 Ohm feedpoint
> resistance and you will
> get gain and good SWR together. For a monoband
> version I suggest
> this. Feeding is easy via a 1/4 wave coax stub.
> This is know from other 2 element beams (X-beam,
> reflected M) as well.
> If you go for a multiband version with a common
> feedline you have to
> make some compromises in performance if you like to
> feed all bands
> together.
> This is what you found out.
>
> Barry:
> Regarding the 30/40m version I had a lot of
> modelling to do as well.
> And the best results where far out of sometimes
> published relations
> for elements and insulators.
>
> I wonder why Traffie again is feeding the beam from
> the top. I cannot
> see any advantage for this. There is no better gain
> or easier
> handling etc. All my beams are fed at the bottom
> element (20m+ and
> 40m+ designs). I have published the design for a
> 30/40m beam about
> 2.5 years ago from now. So he could start his beam
> based on this.
> 73 Holger

>
> --- In hex-beam@yahoogroups.com, "douglis88"
> <douglas@...> wrote:
> >
> > I am not an expert in antenna theory, but I
> purchased the EZNEC
> > program last week and spent many hours modeling
> hex beams. The
> > program is rather awkward to use, but its a lot
> easier than building
> > real antennas (hi). I have modeled only simple
> mono-band hex beams
> so
> > far. I have tried many combinations of end
> spacing and center
> spacing
> > between elements. I tried many length differences
> between driven
> and
> > reflector. I tried many distortions to the classic
> "W" geometry. I
> > tried pointing it slightly upward and downward.
> Its like a treasure
> > hunt to discover the magic combination. I have
> three conclusions to
> > report at this time:
> >
> > 1) It seems the performance is vastly improved if
> you feed the
> antenna
> > below its resonant frequency. When I feed at
> resonance, the SWR is
> > near 1:1, but the gain is only 7 to 8 db and the
> F/B is only 3 to 4
> > db. If I feed slightly above resonance, the SWR
> increases slightly,
> > but the antenna becomes almost omni-diretional,
> like a vertical.
> Now
> > here is the good news... If I lower my frequency
> about 200 to 300
> Khz
> > BELOW resonance, the SWR becomes 3 to 4, but the
> gain jumps to 12 db
> > and the F/B jumps to 20 db+. I see this same
> effect on all my
> > models, regardless of other factors. My
> conclusion is to always
> > "under feed" a hex beam.
> >

> > 2) I tried to improve the vertical radiation angle
> by tilting the
> > antenna slightly downward, and/or playing with
> sloping elements. It
> > seems if you want a better angle for DX, you need
> the simply raise
> the
> > antenna higher. Nothing else has much effect.
> >
> > 3) I tried various lengths for the reflector. If
> I make it too
> long,
> > there are two dips in the SWR curve and the
> overall performance is
> not
> > good. If I make the reflector identical to the
> driven, it still
> > reflects very well, but the bandwidth is slighly
> narrower. I tried
> to
> > force it to act as director by making it even
> shorter, but no way.
> It
> > won't act as director no matter what I do. If I
> leave a large gap
> say
> > 2 to 5 feet between the two W's I get better gain
> and F/B ratios.
> >
> > 73,
> > Doug VE3EFC
> > http://ve3efc.ca
> >
>
>
>
>
>
>

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3292. Re: EZNEC Modeling

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-02 05:57:23 UTC
From: w4wb
Topic: 3283 Message: 3292

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@...> wrote:
snip>
> Barry:
> Regarding the 30/40m version I had a lot of modelling to do as well.
> And the best results where far out of sometimes published relations
> for elements and insulators.
>
> I wonder why Traffie again is feeding the beam from the top. I
cannot
> see any advantage for this. There is no better gain or easier
> handling etc. All my beams are fed at the bottom element (20m+ and
> 40m+ designs). I have published the design for a 30/40m beam about
> 2.5 years ago from now. So he could start his beam based on this.
> 73 Holger
>

Holger,
If you are referring to the 40-30 m Hex-Beam, it is bottom fed. His
other beams are top fed.
73,
Barry W4WB

3294. New member about to build

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-05 17:17:37 UTC
From: n6vl
Topic: 3294 Message: 3294

I have been reading the posts on here for a few weeks now. I ordered and received 6-13 foot black widow poles from Cabelas and plan to try the K4KIO design. I will remove the smallest piece from each pole which will give me 6-10 foot poles to work with.

Here is my quandry. I don't which design to work with. I am leaning toward the K4KIO design, but have studied W1GQL design also. I like how the latter leaves the nylon cord in place. Leaving nylon cord in place will keep the soft drawn copper from stretching. Doesn't nylon also stretch? I have some left over surplus parachute cord laying around which has been guying push up masts now for 3 years without much stretching. HRO sells black dacron locally.

Also I don't know whether to start with a single band version or opt for multi-band at the start. My current interest is 20 meters with 17 as a possiblity. But I am sure the wire dimensions and loading change as the number bands change. I have an extra 30 foot push mast. So the height will be about 30 depending on the actual length.

Well I am off the local hardware store now to look for parts.

73,

Steve N6VL

3295. Re: New member about to build

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-06 20:27:32 UTC
From: rkbower
Topic: 3294 Message: 3295

Steve --

Having just completed my construction about a month ago, I'll give you my opinions based on my experience.

For the most part, I followed Leo's (K4KIO) design and construction approach. Instead of the cutting board baseplate, however, I used wood and painted it with several coats of Rust-O-Leum paint.

I ended up only stringing 20M/17M/15M, but have the cut elements and could add them later on.

I used Nylon cords each 9'5" in length -- 12 in total -- and ended up leaving them all in place.

Top feeding at the 20M elements worked best for me. I have very good and very flat SWR readings across 20M, higher on 17M an 15M.

I have not noticed stretching of the nylon cord beyond the initial "give" that you get from pulling things taught. You really can not (at least I could not) fully appreciate just how delicate the adjustments are. The wires are not stretched very taught -- if the wires are taught, then the cords lose their tension. It is also very easy to pull the poles out of shape. It is very much a labor intensive effort and plan to take your time.

In fact, I found it very useful to do a little bit at a time, then leave the antenna over nite before working on it more.

The antenna is now mounted on a pole about 20' in the air. 20M is working GREAT -- I'm only running 50W and am getting fantastic reports from throughput Europe. I'm very much impressed.

Send me an email address and I'll gladly share some pictures and more experiences with you.

Good Luck !!!

Ron Bower
AC2C
ronbower@...

--- In hex-beam@yahoogroups.com, "n6vl" <n6vl@...> wrote:
>
> I have been reading the posts on here for a few weeks now. I ordered
> and received 6-13 foot black widow poles from Cabelas and plan to try

> the K4KIO design. I will remove the smallest piece from each pole
> which will give me 6-10 foot poles to work with.
>
> Here is my quandry. I don't which design to work with. I am
leaning
> toward the K4KIO design, but have studied W1GQL design also. I
like
> how the latter leaves the nylon cord in place. Leaving nylon cord
in
> place will keep the soft drawn copper from stretching. Doesn't
nylon
> also stretch? I have some left over surplus parachute cord laying
> around which has been guying push up masts now for 3 years without
> much stretching. HRO sells black dacron locally.
>
> Also I don't know whether to start with a single band version or
opt
> for multi-band at the start. My current interest is 20 meters with
17
> as a possiblity. But I am sure the wire dimensions and loading
change
> as the number bands change. I have an extra 30 foot push mast. So
the
> height will be about 30 depending on the actual length.
>
> Well I am off the local hardware store now to look for parts.
>
> 73,
>
> Steve N6VL
>

3296. Preventing pressure treated plywood from warping

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-09 20:29:18 UTC
From: Mark
Topic: 3296 Message: 3296

In preparation of moving my short tower (its only temporarily installed) I've taken it and my hexbeam down. The 1/2 inch plywood hub has warped which appears mostly from the tension on the fiberglass spreaders which are heavy duty ones from Max-Gain Systems.

However, it may have just been the glue's exposure to the elements.

Does anybody know if sealing the pressure treated plywood would have made any difference?

In the mean time I am preparing a new hub using K4KIO's cutting board idea.

3297. Spreaders - How small is too small?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-09 23:42:29 UTC
From: JT Croteau
Topic: 3297 Message: 3297

I've been studying Hex Beams for several weeks and finalizing my plans for my first build.

My goals for this antenna is a quad bander for 20/15/10/6. I don't have an HF rig that covers the WARC bands at the moment and don't see one in my shack in the near future. I'd like to make this as light weight as possible and exploring various plastic materials for this project.

For the spreaders, I am thinking of coming off of the base with 3' of 1/2" fiberglass tube with 1' of solid 1/4" rod stuck in the end to give me a solid 1/2" to clamp down on at the base. The rest of the spreader would be 1/4" solid fiberglass rod with 7' exposed after sticking 1' into the 1/2" section.

Now, my question is, am I thinking too small? I'm not really sure because this has to be at least as strong, if not stronger, than using crappie poles everyone is using. But most of the guys using fiberglass spreaders are using larger spreaders originally made for quads.

Unless I can find a bulk deal on eBay for 13' crappie rods, I can't justify the cost of ~$65 + shipping for a set of six crappie rods. I am local to Max-Gain Systems where I can get more than enough material for ~$45 + tax for my 1/4" x 1/2" spreaders.

I'd appreciate input from those who have homebrewed hex's.

Thanks

--
JT Croteau - W6FO - Canton, GA
ARS #2,147 | NoGA-QRP | SEDXC | ARRL

3298. Re: [hex-beam] Spreaders - How small is too small?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-10 02:56:54 UTC
From: Harold Burton
Topic: 3297 Message: 3298

I found 4' lengths of 3/8" diameter fiberglass rod at my local Tractor Supply store. They are sold as electric fence posts. I could wish for longer heavier rod but the 4 foot 3/8 inch are what the local Southern Oklahoma farm stores are stocking. I built my 20 meter monoband hex beam using this material. It worked but I believe a bit heavier rod would have improved it. Best thing about the posts I used was the price, 99 cents per post. I used info from W1GQLs Hexbeam website to construct my antenna. When I advised him of this fence post material he checked (I believe he said they were Agway stores) in his area of New England and found 6 foot lengths and 1/2" diameter posts being sold. Wish my local stores carried this size. If you are so fortunate as to find the heavier electric fence posts in your own home area farm stores I think you'll find them useful.

Harold
KD5SAK

----- Original Message -----
From: "JT Croteau" <jt.w6fo@...>
To: <hex-beam@yahoogroups.com>
Sent: Wednesday, August 09, 2006 6:42 PM
Subject: [hex-beam] Spreaders - How small is too small?

> I've been studying Hex Beams for several weeks and finalizing my plans
> for my first build.
>
> My goals for this antenna is a quad bander for 20/15/10/6. I don't
> have an HF rig that covers the WARC bands at the moment and don't see
> one in my shack in the near future. I'd like to make this as light
> weight as possible and exploring various plastic materials for this
> project.
>
> For the spreaders, I am thinking of coming off of the base with 3' of
> 1/2" fiberglass tube with 1' of solid 1/4" rod stuck in the end to
> give me a solid 1/2" to clamp down on at the base. The rest of the
> spreader would be 1/4" solid fiberglass rod with 7' exposed after
> sticking 1' into the 1/2" section.
>
> Now, my question is, am I thinking too small? I'm not really sure
> because this has to be at least as strong, if not stronger, than using
> crappie poles everyone is using. But most of the guys using
> fiberglass spreaders are using larger spreaders originally made for
> quads.
>
> Unless I can find a bulk deal on eBay for 13' crappie rods, I can't
> justify the cost of ~$65 + shipping for a set of six crappie rods. I

> am local to Max-Gain Systems where I can get more than enough material
> for ~$45 + tax for my 1/4" x 1/2" spreaders.
>
> I'd appreciate input from those who have homebrewed hex's.
>
> Thanks
>
> --
> JT Croteau - W6FO - Canton, GA

3299. Re: Spreaders - How small is too small?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-10 16:34:16 UTC
From: w0tmm
Topic: 3297 Message: 3299

JT:
I bought my spreaders from Max-Gain. I bought 3 8' pieces of 3/4" tubing and 6 pieces of 1/2" tubing. I cut the 3/4" pieces into 4' sections and slipped the 1/2" pieces into the 3/4" sections till the length was right. Once the length is right the rest falls into place nicely.

John W0TMM

. I
> am local to Max-Gain Systems where I can get more than enough material
> for ~$45 + tax for my 1/4" x 1/2" spreaders.
>
> I'd appreciate input from those who have homebrewed hex's.
>
> Thanks
>
> --
> JT Croteau - W6FO - Canton, GA
> ARS #2,147 | NoGA-QRP | SEDXC | ARRL
>

3300. Re: [hex-beam] Spreaders - How small is too small?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-10 18:09:40 UTC
From: dave@zievid.com
Topic: 3297 Message: 3300

I first tried a tapering combination of 3/4" tube to 1/2" tube to 1/4" rod for a 5 bander but found the 1/4" rod too flexible. With a 4' length it didn't have the tension to hold the 20m wires tight. I ended up going with 8' of 1/2" to the tips. See http://www.zievid.com/W6OT/Hex/Beam.htm for more info. All material was from Max-Gain.

I think it would work with all 1/2" tubing, but I haven't tried it. Adding the reinforcement at the base under the clamps is a good idea.

- Dave
W6OT

> I've been studying Hex Beams for several weeks and finalizing my plans
> for my first build.
>
> My goals for this antenna is a quad bander for 20/15/10/6. I don't
> have an HF rig that covers the WARC bands at the moment and don't see
> one in my shack in the near future. I'd like to make this as light
> weight as possible and exploring various plastic materials for this
> project.
>
> For the spreaders, I am thinking of coming off of the base with 3' of
> 1/2" fiberglass tube with 1' of solid 1/4" rod stuck in the end to
> give me a solid 1/2" to clamp down on at the base. The rest of the
> spreader would be 1/4" solid fiberglass rod with 7' exposed after
> sticking 1' into the 1/2" section.
>
> Now, my question is, am I thinking too small? I'm not really sure
> because this has to be at least as strong, if not stronger, than using
> crappie poles everyone is using. But most of the guys using
> fiberglass spreaders are using larger spreaders originally made for
> quads.
>
> Unless I can find a bulk deal on eBay for 13' crappie rods, I can't
> justify the cost of ~$65 + shipping for a set of six crappie rods. I
> am local to Max-Gain Systems where I can get more than enough material
> for ~$45 + tax for my 1/4" x 1/2" spreaders.
>
> I'd appreciate input from those who have homebrewed hex's.
>
> Thanks
>
> --
> JT Croteau - W6FO - Canton, GA
> ARS #2,147 | NoGA-QRP | SEDXC | ARRL
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3301. Re: [hex-beam] Spreaders - How small is too small?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-10 18:55:18 UTC
From: JT Croteau
Topic: 3297 Message: 3301

On 8/10/06, dave@... <dave@...> wrote:
> I think it would work with all 1/2" tubing, but I haven't tried it.
> Adding the reinforcement at the base under the clamps is a good idea.

Thanks Dave and all others who replied.

I am leaning towards 8' of 1/2" solid to the tips based on some of the experiences I've read. The rest of the length will be 3/4" with 1/2" solid in the 3/4" where it gets clamped down onto the base.

Now, my other question is, what is the easiest way to draw out the hex base so I can get all the angles for the spreaders @ 60 degrees? I failed geometry bad. Actually, I dropped out of high school cause I was stubborn and lazy, but this is another story for another time.

--
JT Croteau - W6FO - Canton, GA
ARS #2,147 | NoGA-QRP | SEDXC | ARRL

3302. Re: [hex-beam] Spreaders - How small is too small?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-10 20:51:38 UTC
From: dave@zievid.com
Topic: 3297 Message: 3302

Hi JT -

I haven't tried 1/2" solid rod, so if you're actually going to Max-Gain you might want to see how it flexes. You can probably save a few bucks and some weight by using the tubing.

To draw the base layout, I did it in pencil on a large sheet of paper. You can do it a few ways:

* Buy a cheapo protractor and mark lines 60 degrees apart. You only need 3 lines, since they run straight through the same center. So just use an edge to draw one line, mark the center point, then draw 2 more lines through the same point, all at a 60 degree angle. Then measure from the center as far out as you want and mark the edges where you'll cut.

* You can make a hex shape without a ruler if you have a compass (drawing gizmo with a pencil on one side, sharp point on the other). You can draw a hex shape based on the fact that all sides and the distances from the hex points to the center are the same. This is hard to describe, but try following these steps:
a) Draw a straight line at least as long as the base plate
b) Pick a point on the line for the center and mark it
c) Use the compass and draw a circle with it's center at this point (stick the pointy end of the compass there, and twirl the compass around dragging the pencil end on the paper). You'll now have a circle with a line through its center.
d) Put the sharp part of the compass at one point where the line and circle intersect, and draw another circle there.
e) Repeat that step for the other point where the first circle and line intersect. You'll now have 3 circles with a single line connecting their centers.

The points where the outer circles cross the inner circle line are the other 4 points of the hex.

I did the layout on a piece of paper, cut it out and traced onto plywood.

Hope I'm making sense,
- Dave
W6OT

> On 8/10/06, dave@... <dave@...> wrote:
>> I think it would work with all 1/2" tubing, but I haven't tried it.
>> Adding the reinforcement at the base under the clamps is a good idea.
>
> Thanks Dave and all others who replied.
>

> I am leaning towards 8' of 1/2" solid to the tips based on some of the
> experiences I've read. The rest of the length will be 3/4" with 1/2"
> solid in the 3/4" where it gets clamped down onto the base.
>
> Now, my other question is, what is the easiest way to draw out the hex
> base so I can get all the angles for the spreaders @ 60 degrees? I
> failed geometry bad. Actually, I dropped out of high school cause I
> was stubborn and lazy, but this is another story for another time.
>
> --
> JT Croteau - W6FO - Canton, GA
> ARS #2,147 | NoGA-QRP | SEDXC | ARRL
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3303. Re: [hex-beam] Spreaders - How small is too small?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-10 21:06:19 UTC
From: JT Croteau
Topic: 3297 Message: 3303

On 8/10/06, dave@... <dave@...> wrote:
> I haven't tried 1/2" solid rod.. You can probably save a few
> bucks and some weight by using the tubing.

Actually, I'd save weight but pay more.. an interesting dilema.

1/2" Rod 1.22 lbs. $6.00/8 ft.
1/2" Tube 0.837 lbs. $6.50/8 ft.

I will probably go for the tube for that extra bit of weight savings.

My base plate is actually a perfect 12" x 12" square so I should be
able to draw a hex on this quite easy with a ruler and nice straight
edge.

Thanks again.

--
JT Croteau - W6FO - Canton, GA
ARS #2,147 | NoGA-QRP | SEDXC | ARRL

3304. Re: Spreaders - How small is too small?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-16 13:43:00 UTC
From: Colin
Topic: 3297 Message: 3304

Hi
Using 1/2" tube alone for the spreaders could create some problems.
They will tend to go "S" shaped very easily, especially on a 5
bander.
With very careful adjustment you can get them straight but they will
remain extremely flexible (both laterally and vertically)
On a windy day the spreaders can be pushed out of shape.
If the wires can move in relation to the attachment points (ie: by
sliding through the small tubes) the wire lengths will change .
The spreaders will be unable to recover the original shape as they
don`t have enough "spring" strength to pull the wire back to where it
started.
Clamping the elements to the spreaders at the attachment points so
they can`t slide may be a good way to prevent this problem.

Also be aware that the center post will need to be somewhat longer
than usual as the 20m element will start higher up the post due to
the bend of the spreaders.
Overall, using 1/2" may seem like a good idea for economy but a
larger diameter would be less problematic.

Good luck with your hex
73
Colin
M0XBM

--- In hex-beam@yahoogroups.com, "JT Croteau" <jt.w6fo@...> wrote:
>
> On 8/10/06, dave@... <dave@...> wrote:
> > I haven't tried 1/2" solid rod.. You can probably save a few
> > bucks and some weight by using the tubing.
>
> Actually, I'd save weight but pay more.. an interesting dilema.
>
> 1/2" Rod 1.22 lbs. $6.00/8 ft.
> 1/2" Tube 0.837 lbs. $6.50/8 ft.
>
> I will probably go for the tube for that extra bit of weight
savings.
>
> My base plate is actually a perfect 12" x 12" square so I should be
> able to draw a hex on this quite easy with a ruler and nice straight
> edge.
>
> Thanks again.
>

```
> --
> JT Croteau - W6FO - Canton, GA
> ARS #2,147 | NoGA-QRP | SEDXC | ARRL
>
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3305. Wideband feed system?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-14 19:19:10 UTC
From: steveeh131047
Topic: 3305 Message: 3305

Hi Folks,

I'm a new boy to the group from England, but have been "playing" with 20m HexBeam designs using EZNEC for a couple of months. I found that the gain and F/B performance is generally quite narrowband, but if I feed both the Driver and Reflector it becomes much more broadband.

For example, using DL7IO's single-band 20m model the Free Space gain and F/B fall from 5.5dBi/15dB at 14MHz to 3.3dBi/5dB at 14.4MHz. But if I then feed the Reflector in addition to the Driver (with a "reversal") the gain and F/B are much more "stable". Between 14.1MHz and 14.7MHz the gain increases steadily from 5.3dBi to 5.7dBi and the F/B increases from 9.6dB up to a max of 15dB (at 14.4MHz) and then back to 9.7dB. Clearly, the antenna dimensions could be scaled to centre this performance on the 20m band.

Like most 2 element driven arrays the feedpoint impedance is pretty low. Between 14.1MHz and 14.7MHz the Real part is stable at 8 to 9 Ohms, and the reactance increases from +10 to +34 Ohms. I'll leave it to others to work out how to match this to 50 Ohms:)

The same technique works with other HexBeam models (e.g. Cebik's), and indeed with other beam types.

I thought some of the Group might be interested in these results - I'm new to EZNEC so I hope they are "real" and not a modelling aberration! It might be interesting for someone with a real antenna to try it out - looking at the way most folk construct the beam it would be a relatively easy change to make.

I've found the Group an excellent source of info - thanks.

Steve

3306. Anyone built a 10 - 40m version?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-18 05:53:35 UTC
From: slolawfirm
Topic: 3306 Message: 3306

Hi Folks,

I am considering building a 5 band version; I may have the room to extend the spreaders sufficiently to add 40m (although not sure it would be mechanically stable, among other things.) This would allow my removing of all the other antennas in the yard.

Regards,

Phil KM6CZ

3307. Re: Wideband feed system?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-18 12:12:09 UTC
From: steveeh131047
Topic: 3305 Message: 3307

I've done a bit more modelling work since the first posting. I've scaled the dimensions to centre the performance on 14.2MHz, and matched the feedpoint impedance with a simple 45 inch length of 12.5 Ohm line (4x50 Ohm lengths in parallel). Modelled Free Space performance then is:

Freq Gain F/B SWR
14.0 5.3dBi 12.5dB 2.0
14.1 5.4dBi 16.0dB 1.4
14.2 5.4dBi 18.3dB 1.5
14.3 5.5dBi 15.6dB 2.1
14.35 5.5dBi 14.0dB 2.7

The drive to the reflector is modelled as a very short length of reversed transmission line. If I model it by connecting the right-side of the Reflector to the left-side of the Driven element & vice-versa I get very similar results. I'm happy to post the EZNEC file if anyone is interested.

Just collecting together the bits and pieces to make myself a 5 bander so that I can join in the fun!

Steve G3TXQ

--- In hex-beam@yahoogroups.com, "steveeh131047" <steve@...> wrote:
>
> Hi Folks,
>
> I'm a new boy to the group from England, but have been "playing" with
> 20m HexBeam designs using EZNEC for a couple of months. I found that
> the gain and F/B performance is generally quite narrowband, but if I
> feed both the Driver and Reflector it becomes much more broadband.
>
> For example, using DL7IO's single-band 20m model the Free Space gain
> and F/B fall from 5.5dBi/15dB at 14MHz to 3.3dBi/5dB at 14.4MHz. But
> if I then feed the Reflector in addition to the Driver (with
> a "reversal") the gain and F/B are much more "stable". Between
> 14.1MHz and 14.7MHz the gain increases steadily from 5.3dBi to 5.7dBi
> and the F/B increases from 9.6dB up to a max of 15dB (at 14.4MHz) and

> then back to 9.7dB. Clearly, the antenna dimensions could be scaled
> to centre this performance on the 20m band.
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> Like most 2 element driven arrays the feedpoint impedance is pretty
> low. Between 14.1MHz and 14.7MHz the Real part is stable at 8 to 9
> Ohms, and the reactance increases from +10 to +34 Ohms. I'll leave
it
> to others to work out how to match this to 50 Ohms:)
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> The same technique works with other HexBeam models (e.g. Cebik's),
> and indeed with other beam types.
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> I thought some of the Group might be interested in these results -
> I'm new to EZNEC so I hope they are "real" and not a modelling
> aberration! It might be interesting for someone with a real antenna
> to try it out - looking at the way most folk construct the beam it
> would be a relatively easy change to make.
>
> I've found the Group an excellent source of info - thanks.
>
> Steve
>

3308. Re: Wideband feed system?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-19 11:06:03 UTC
From: w4wb
Topic: 3305 Message: 3308

Hi Steve,

I wonder if you have tried to compare your modeled results against Traffie's measured results. See
http://www.hexbeam.com/performance.shtml
FWIW, my SWR and F/B measured values are essentially the same as he reports. At my QTH, I don't have an appropriate setup to measure the gain independently.

Note also that his gain is reported in dBd rather than in dBi as you have below, so the dBi = dBd + 2.15 dB. Also, notice carefully the behavior of the SWR and F/B vs. frequency. I have observe the same on several of the Traffie-made Hex-Beams I have measured. I mention these points Steve since I notice the significant difference between your values and his.

Have fun modeling!
73,
Barry W4WB

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if
> anyone is interested.
>
> Just collecting together the bits and pieces to make myself a 5
> bander so that I can join in the fun!

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> Steve G3TXQ
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> --- In hex-beam@yahoogroups.com, "steveeh131047" <steve@> wrote:
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it
> > would be a relatively easy change to make.
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> > I've found the Group an excellent source of info - thanks.
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> > Steve
> >
>

3309. The Traffie HEX-PAC

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-19 11:29:51 UTC
From: w4wb
Topic: 3309 Message: 3309

I recently received the Traffie HEX-PAC after finally getting enough coins in the cookie jar. http://www.hexbeam.com/hxp.shtml

First impression is simply great. A couple of my ham friends were there when I opened up the box and we all commented on the quality of the HEX-PAC. Perhaps the best way to describe the HEX-PAC is that it is a portable Hex-Beam system to construct monoband Hex-Beams. Mine configuration covers six bands (6-20 m). The HEX-PAC contains a number of color-coded arms that you select the proper collection to construct whatever monobander you which to use. Sort of the ultimate "tinker-toy" antenna set. All of the items you need for all of the antennas are packaged in a well-made and well-configured custom tote bag that travels easy. Weight is only 13 pounds.

I had my HEX-PAC "modified" a bit in that rather than just having 6 sets of elements, each tuned to cover all of the appropriate bands, I had 3 more sets of elements included specifically tuned for the SSB band segments on 10, 15, and 20 m. Due to the behavior of a well-tuned Hex-Beam, it does make a difference in performance when you really want to be competitive. I have two sets of elements for 40 m for my 40-30 m Hex-Beam and, yes, it does make a difference. My 5-band Hex-Beam has all of its elements tuned for CW (where I often operate) and I simply take the performance decrease in the phone bands; however, it still performs adequately well to be quite competitive in the phone bands.

As soon as I have a little free time, I will try out the HEX-PAC on the air. I recently acquired a BlueSky Mast system that has a 15 m capability. With this system, the Hex-Beam can be raised to 50 feet by one person in about 15 minutes, and in about 8 minutes with two people. This is a military-grade mast system. If interested, see www.blueskymast.com.

Now off to the Huntsville Hamfest for the day!

73,
Barry W4WB

3310. Re: Anyone built a 10 - 40m version?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-19 13:27:59 UTC
From: Colin
Topic: 3306 Message: 3310

Hi Phil
I can`t quite fit a 40m hex here, so i`m stuck with multiple antennas. It does makes sense to compact as many bands into one antenna if you can, economical too with a single support structure.

Considering the stability aspect,the basic format of 6 flexible spreaders is great.. if you can find ones with the right properties at the correct length (and reasonably priced!).

I am looking into alternatives that may provide the correct curve and rigidity without relying on expensive fibreglass tube, which as we all know, accounts for most of the antenna`s cost.. whether commercial or homebrew.

It may even make 1/4" diameter spreaders a viable option :)

Best of luck with the big 5 bander
73
Colin m0xbm

--- In hex-beam@yahoogroups.com, "slolawfirm" <philipas@...> wrote:
>
> Hi Folks,
>
> I am considering building a 5 band version; I may have the room to
> extend the spreaders sufficiently to add 40m (although not sure it
> would be mechanically stable, among other things.) This would allow
my
> removing of all the other antennas in the yard.
>
> Regards,
>
> Phil KM6CZ
>

3311. Re: Wideband feed system?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-19 14:20:38 UTC
From: steveeh131047
Topic: 3305 Message: 3311

Hi Barry,

Yes, I have compared my modelled results with the Traffie figures and noted the differences.

In fact, my interest in "playing" with Hexbeam models started because none of the published models I could find (DL7IO, LB Cebik etc) seemed to produce results close to Mike's figures across the whole of the 20m band, and I wondered if I could do better ..... the answer appears to be no :(

I wonder if anyone out there has an EZNEC model that gets close to Mike's figures?

Please don't think I'm callenging Mike's figures - I think Mike's design is innovative and I can't wait to build a "real" one of my own. Just waiting for the poles to arrive ... !

Steve G3TXQ

> Hi Steve,
>
> I wonder if you have tried to compare your modeled results against
> Traffie's measured results. See
> http://www.hexbeam.com/performance.shtml

3312. Re: Wideband feed system?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-20 01:50:02 UTC
From: w4wb
Topic: 3305 Message: 3312

Hi Steve,

I understand and I find it interesting that you are investigating a means to broaden the bandwidth. One way might be to use heavier gage wire and (for a monobander) use a pair of such wires spaced apart. This technique is used with dipoles.

It is my opinion that NEC doesn't properly allow modeling of the Hex-Beam in its transmit mode, although it is closer to reality in the receive mode. Nevertheless, it is fun to play with models and gain some nice insight. FWIW, Traffie published the basic configuration equations in a paper entitled "Miniaturized Antennas" in 1995. This is located in the Publications Folder in the Files section. Over the past decade, Traffie has refined his tunings and configurations from the practical knowledge gained in building hundreds and hundreds of Hex-Beams, which he checks each one fully deployed on a test tower before shipping to the customer. A somewhat remarkable characteristic of the Hex-Beam is that even when it is not optimally tuned, it still performs rather adequately; however, when it is really tuned up, the antenna truly "sings!" :-)

Hope your attempt to build the antenna is highly successful!

GL es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "steveeh131047" <steve@...> wrote:
>
> Hi Barry,
>
> Yes, I have compared my modelled results with the Traffie figures
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> noted the differences.
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> none of the published models I could find (DL7IO, LB Cebik etc)
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> Please don't think I'm callenging Mike's figures - I think Mike's
> design is innovative and I can't wait to build a "real" one of my
own.
> Just waiting for the poles to arrive ... !
>
> Steve G3TXQ

3313. Re: Wideband feed system?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-20 03:52:43 UTC
From: Ralph
Topic: 3305 Message: 3313

Hello,
I am gathering my materials, have the spreaders and a working 5
band dipole. But I have never seen a model that you discribe, so
please post it.
Thank you,
Ralph WA2OGN,
Thomasville, GA

--- In hex-beam@yahoogroups.com, "steveeh131047" <steve@...> wrote:
>
> I've done a bit more modelling work since the first posting. I've
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> anyone is interested.
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> Steve G3TXQ
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> > The same technique works with other HexBeam models (e.g.
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> > would be a relatively easy change to make.
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> > I've found the Group an excellent source of info - thanks.
> >
> > Steve
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>

3314. HEX 30/40

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-20 04:56:53 UTC
From: Clay K7HC
Topic: 3314 Message: 3314

I'm getting serious about a 40/30 Hexbeam above my 4 element SteppIR. Where can I get specific information on details of the 30/40? I need to know sources, info on matching and bandwidth, anything on interaction with another ant (10' separation), cost, and other specific info. Help?

3315. Re: Wideband feed system?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-20 08:47:10 UTC
From: steveeh131047
Topic: 3305 Message: 3315

Hi Ralph,

I have posted the EZNEC file in the "Files" area under the name "20m Hex 2 elements driven".

The dimensions are pretty much those of DL7IO's single band model. In addition the model contains 2 transmission lines:

Line 1 is just a convenient way to model the drive to the reflector. Note that it is "reversed" i.e. right side of Driven element connects to left side of Reflector & vice-versa. The Zo of the line, and its length, are not at all critical and in practice you would simply connect the antenna wires together.

Line 2 is a simple series-section to match the low feedpoint impedance to 50 Ohms. The Zo here and the length are of course important.

I found the rather large number of segments to be necessary on most Hexbeam models in order to reduce the "average gain" figure to something acceptable.

I've done no work at all applying this technique to multiband models.

I guess one way of viewing the antenna is to think of it as a a "ZL special" with bent elements, and in which the proximity of the 2 drive points leaves no room for the phasing line!! The element current phasing necessary to achieve directivity is achieved solely by the different complex impedances of the 2 drive points.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Ralph" <wa2ogn@...> wrote:
>
> Hello,
> I am gathering my materials, have the spreaders and a working 5
> band dipole. But I have never seen a model that you discribe, so
> please post it.
> Thank you,
> Ralph WA2OGN,
> Thomasville, GA
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3316. Re: [hex-beam] Re: Wideband feed system?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-20 13:53:53 UTC
From: Mike Van Winkle
Topic: 3305 Message: 3316

Okay guys here ia a crazy idea...Broad band it by using twin lead for the elements instead of wire...NO I haven't tried it YET...I bet if you make one of the twin lead wires shorter than the other it could work! Its a good experiment to try...We have been doing it with dipoles for years..The deminsions will be just a bit shorter also due ti the linear loading provided...Out to the lab for some fun!!!..W4HV Mike

--- w4wb <w4wb@...> wrote:

> Hi Steve,
>
> I understand and I find it interesting that you are
> investigating a
> means to broaden the bandwidth. One way might be to
> use heavier
> gage wire and (for a monobander) use a pair of such
> wires spaced
> apart. This technique is used with dipoles.
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> GL es 73,
> Barry W4WB
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http://mail.yahoo.com

3317. Re: Wideband feed system?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-20 17:50:13 UTC
From: Colin
Topic: 3305 Message: 3317

Hi Steve
Sounds like this might be a good candidate for a folded dipole driven
element.
The 12.4 ohms would be transformed (4:1) to almost a perfect 50
ohm ;)

--- In hex-beam@yahoogroups.com, "steveeh131047" <steve@...> wrote:
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> > would be a relatively easy change to make.
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> > Steve
> >
>

3318. Re: Wideband feed system?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-20 18:41:15 UTC
From: steveeh131047
Topic: 3305 Message: 3318

Hi Colin,

Thanks for the suggestion.

Unfortunately the feedpoint impedance is not 12.4 Ohms - mid-band it is about 7+j20 so folding the element wont produce a 50 Ohm match; however a series section of 12.5 Ohm transmission line works just fine :)

73,
Steve G3TXQ

--- In hex-beam@...m, "Colin" <djcol1@...> wrote:
>
> Hi Steve
> Sounds like this might be a good candidate for a folded dipole driven
> element.
> The 12.4 ohms would be transformed (4:1) to almost a perfect 50
> ohm ;)

3319. Dimensions of Traffie Five band hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-20 18:53:45 UTC
From: k4kio
Topic: 3319 Message: 3319

Does anyone have the wire lengths and end spacing for the elements of the Traffie Five Band Hexbeam?

Thanks,

Leo, K4KIO

3320. Chimney mount?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-20 22:36:10 UTC
From: kc0rdg
Topic: 3320 Message: 3320

I am wondering if it would be possible to use a chimney as a mount for the Hexbeam.

I would use a chimney mount kit from Radio Shack, attach a pipe to it and secure the bottom of the pipe to the roof then mount the rotor and Hexbeam on top. I know it doesn't weigh much so I was wondering if this would be a safe alternative for the meantime until I get a pushup mast up. The pipe would extend maybe 3 feet above the chimney.

I have a small picture (unfortunately) of my house and you can see the chimney a little bit on top http://tinyurl.com/jf5hr

Thanks

3321. Re: [hex-beam] Chimney mount?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-21 02:05:09 UTC
From: Lawton wright
Topic: 3320 Message: 3321

Hi their
I mounted a anttena to my chimney with preaty good results. I mounted a spider beam with just the set up you talked about. When I frist put it up I did not use any kind of roof mount. I just had the pole held up by the chemney straps. The antenna only ways about 12 LBs, but the frist wind that came along made the anttena come down and rest on the roof. I then redid everthing and used a roof mount to hold the bottom of the pole. I also added guy wires to make sure that everything stayed up. I worked very good for me. I had the beam up about 37 to 40 feet from the goound and about 15 feet from the roof. Made lots of contacts and even was able to make contacts with a lot of DX with good results. All of this with just 100w. So I guess that the reason for this story is to say yes, put that antenna on the roof and start with the "hamming".
Gene WA6ZRT

kc0rdg <kc0rdg@...> wrote:
I am wondering if it would be possible to use a chimney as a mount for the Hexbeam.

I would use a chimney mount kit from Radio Shack, attach a pipe to it and secure the bottom of the pipe to the roof then mount the rotor and Hexbeam on top. I know it doesn't weigh much so I was wondering if this would be a safe alternative for the meantime until I get a pushup mast up. The pipe would extend maybe 3 feet above the chimney.

I have a small picture (unfortunately) of my house and you can see the chimney a little bit on top http://tinyurl.com/jf5hr

Thanks

[Non-text portions of this message have been removed]

3322. Re: [hex-beam] Chimney mount?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-21 11:35:51 UTC
From: Michael Doherty
Topic: 3320 Message: 3322

Have you considered putting the rotor at the bottom of the mast? Check out ve3efc's neat installation - http://ve3efc.ca/hexbeam.html. Note especially the picture at the bottom of the page.

I installed my hexbeam on a push up mast with a radio shack rotator at the bottom per Mike Traffie's suggestions. There are a couple of pictures in the group pictures section.

The idea is to minimize the wind loading as much as possible.

Good luck,

Michael kd5wby

[Non-text portions of this message have been removed]

3323. Re: Chimney mount?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-23 04:17:44 UTC
From: kc0rdg
Topic: 3320 Message: 3323

--- In hex-beam@yahoogroups.com, "Michael Doherty" <rmdoherty@...> wrote:
>
> Have you considered putting the rotor at the bottom of the mast?
>
> Michael kd5wby
>

Interesting. I cannot tell from the pictures how he secured the wood to the chimney. It would appear that this is something I can do. Having the rotor turn the mast and antenna might be good from a wind load perspective. I am planning on purchasing the Yaesu 450 rotor which I think should be enough for this application. I looked into the past posts and I have found a couple of them relating to mounting it on your chimney, so it would appear this is a viable alternative with the biggest drawback being the height above ground. It would be higher with a (pushup)mast but that involves more $.

3324. Use of insulated wire

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-23 23:36:50 UTC
From: slolawfirm
Topic: 3324 Message: 3324

Hi folks,

I would like to use insulated wire for my home built hex beam. I recognize this will add a few pounds of weight which isn't a problem. However, I am wondering whether the velocity factor would be changed as a result or otherwise change the dimensions provided by the pioneers of the homebuilt HEX beams.

Any thoughts?

Regards,

Phil KM6CZ

3325. Re: [hex-beam] Use of insulated wire

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-24 14:45:58 UTC
From: Leo Shoemaker
Topic: 3324 Message: 3325

Phil, he can speak for himself if he happens to see your posting but Holger says that you will need to reduce your wire lengths if you use insulated wire. See his pdf presentation, page 10.

73, Leo, K4KIO

slolawfirm <philipas@...> wrote: Hi folks,

I would like to use insulated wire for my home built hex beam. I recognize this will add a few pounds of weight which isn't a problem. However, I am wondering whether the velocity factor would be changed as a result or otherwise change the dimensions provided by the pioneers of the homebuilt HEX beams.

Any thoughts?

Regards,

Phil KM6CZ

[Non-text portions of this message have been removed]

3326. Re: [hex-beam] Use of insulated wire

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-24 15:30:27 UTC
From: Darren G0TSM
Topic: 3324 Message: 3326

My first Hexbeam used insulated wire, the calculated velocity factor of the wire was different to the actual velocity factor, in the end the lengths were about 1% out. The problem was that I had perfect 1:1 SWR on all five bands but no front to back and actually negative front to back on 12m. I replaced it with bare wire and have been happy ever since.

So, only use insulated wire if you know the 'actual' velocity factor.

Darren

At 23:36 23/08/2006, you wrote:

>Hi folks,
>
>I would like to use insulated wire for my home built hex beam. I
>recognize this will add a few pounds of weight which isn't a problem.
>However, I am wondering whether the velocity factor would be changed as
>a result or otherwise change the dimensions provided by the pioneers of
>the homebuilt HEX beams.
>
>Any thoughts?
>
>Regards,
>
>Phil KM6CZ
>
>

[Non-text portions of this message have been removed]

3327. Re: Use of insulated wire

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-24 15:39:33 UTC
From: steveeh131047
Topic: 3324 Message: 3327

Phil,

Insulated wire will indeed have a velocity factor - between 0.99 and 0.95 according to LB Cebik - depending on the type of insulation and its thickness. See http://www.cebik.com/amod/amod50.html for more details.

I would suggest that you first build just the Driven element to published dimensions, and check its resonant frequency - it will be too low. You can then calculate the velocity factor from the ratio between the actual resonant frequency and the "intended" one. Then you can simply scale all your element lengths (including of course the reflectors) by the same amount.

Good luck,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, Leo Shoemaker <k4kio@...> wrote:
>
> Phil, he can speak for himself if he happens to see your posting but Holger says that you will need to reduce your wire lengths if you use insulated wire. See his pdf presentation, page 10.
>
> 73, Leo, K4KIO
>
> slolawfirm <philipas@...> wrote:
Hi folks,
>
> I would like to use insulated wire for my home built hex beam. I
> recognize this will add a few pounds of weight which isn't a problem.
> However, I am wondering whether the velocity factor would be changed as
> a result or otherwise change the dimensions provided by the pioneers of
> the homebuilt HEX beams.
>
> Any thoughts?
>
> Regards,
>
> Phil KM6CZ
>
>
>
>

>
>
> [Non-text portions of this message have been removed]
>

3328. Re: Use of insulated wire & an idea

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-24 20:47:14 UTC
From: slolawfirm
Topic: 3324 Message: 3328

Thanks to all that replied. I think I will save myself the effort and just use bare copper wire.

There was an article on ham universe describing a 17m coaxial hybrid hexbeam which used RG-58 (vf of 0.66). Based on one of the other poster's spreadsheet, a 40m beam using RG-58 for the elements should fit on a 12' spreader. (I actually built the 17m hybrid hex antenna and it worked great until the bamboo spreaders broke!)

This may allow all bands between 40 - 10m on a hexbeam not much larger than the standard 5 band version (albeit, alot of interaction to deal with.)

This technique might be useful to reduce the standard size of the 5 bander down by about 33%.

Has anyone tried this in a true hex configuration?

73's

Phil

3329. Re: Use of insulated wire & an idea

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-25 08:51:53 UTC
From: steveeh131047
Topic: 3324 Message: 3329

Phil,

The weight of the RG-58 might be an issue, depending on how strong your spreader poles are.

I wonder, too, if the coax might introduce losses - it certainly isn't operating under matched conditions, and presumably suffers quite high equivalent SWRs at different points along its length.

I'd be interested to hear if anyone has done any work on this - for Hexbeams or any other antenna. I've not seen any published data and as Phil says, superficially at least it looks like an attractive way of reducing significantly the size of any wire antenna.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "slolawfirm" <philipas@...> wrote:
>
> Thanks to all that replied. I think I will save myself the effort and
> just use bare copper wire.
>
> There was an article on ham universe describing a 17m coaxial hybrid
> hexbeam which used RG-58 (vf of 0.66). Based on one of the other
> poster's spreadsheet, a 40m beam using RG-58 for the elements should
> fit on a 12' spreader. (I actually built the 17m hybrid hex antenna
> and it worked great until the bamboo spreaders broke!)
>
> This may allow all bands between 40 - 10m on a hexbeam not much
> larger than the standard 5 band version (albeit, alot of interaction
> to deal with.)
>
> This technique might be useful to reduce the standard size of the 5
> bander down by about 33%.
>
> Has anyone tried this in a true hex configuration?
>
> 73's
>
> Phil
>

3330. Coax Moxton

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-26 05:22:06 UTC
From: slolawfirm
Topic: 3330 Message: 3330

Here is the link to the 17m hybred antenna I mentioned eariler. The author calls this a moxon, but it is actually closer to a hex beam configuration.

http://www.hamuniverse.com/17mcoaxmox.html

I've actually built and used this antenna and it worked fine. The only problem encountered was the cheap bamboo did not last more than a couple of months in the California sunshine. I plan on incorporating this idea when I actually get time to build the hex beam. I don't believe the weight will be a problem; finding the proper position and tuning may be difficult.

73's Phil

3331. Skeds...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-28 07:50:53 UTC
From: w6hb
Topic: 3331 Message: 3331

I am looking for QSOs to round out my HXCC award and need a few more to qualify. My time is currently flexible. If you have a Hex-Beam, commercial or homebrew, and are available please drop me an E-mail to w6hb@.... Thanks in advance!

Doug

3332. Re: [hex-beam] Skeds...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-28 22:29:33 UTC
From: bur52@aol.com
Topic: 3331 Message: 3332

Need an east coast "3" land station?
I am in the Philly suburbs. 20 meters is a good shot for me to the west coast, I may be around tonite, if ya need Pa.

73
K3jvb
JohnB

[Non-text portions of this message have been removed]

3333. Re: [hex-beam] Skeds...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-29 16:18:31 UTC
From: edward campbell
Topic: 3331 Message: 3333

will be active this weekend anyone needing Idaho...and am active most evenings

73,
Ed NT4TT Idaho Falls, Idaho

bur52@... wrote:
Need an east coast "3" land station?
I am in the Philly suburbs. 20 meters is a good shot for me to the west
coast, I may be around tonite, if ya need Pa.

73
K3jvb
JohnB

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for
2¢/min or less.

[Non-text portions of this message have been removed]

3334. Re: Skeds...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-29 16:21:03 UTC
From: Colin
Topic: 3331 Message: 3334

Hi Doug,

Good to see interest in the HXCC award.
Thunderstorms and lightning here today, so getting an opening.. doth
not bode well hi.
None the less, we can live in hope and i will be around on 20m about
21.30 (UTC) tonight.

If anyone else is interested in the HXCC award, I usually monitor 17m
(18.130) 13:00-14:30 utc most afternoons.
I`ll probably be that real weak station you hear with only 20w-30w ..
but I`ll be more than happy to give you a point.

73
Colin m0xbm

--- In hex-beam@yahoogroups.com, "w6hb" <w6hb@...> wrote:
>
> I am looking for QSOs to round out my HXCC award and need a few more
to
> qualify. My time is currently flexible. If you have a Hex-Beam,
> commercial or homebrew, and are available please drop me an E-mail to
> w6hb@... Thanks in advance!
>
> Doug
>

3335. Re: Skeds...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-29 16:55:44 UTC
From: rkbower
Topic: 3331 Message: 3335

What is an HXCC Award ???

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@...> wrote:
>
> Hi Doug,
>
> Good to see interest in the HXCC award.
> Thunderstorms and lightning here today, so getting an opening..
doth
> not bode well hi.
> None the less, we can live in hope and i will be around on 20m
about
> 21.30 (UTC) tonight.
>
> If anyone else is interested in the HXCC award, I usually monitor
17m
> (18.130) 13:00-14:30 utc most afternoons.
> I`ll probably be that real weak station you hear with only 20w-
30w ..
> but I`ll be more than happy to give you a point.
>
> 73
> Colin m0xbm
>
>
> --- In hex-beam@yahoogroups.com, "w6hb" <w6hb@> wrote:
> >
> > I am looking for QSOs to round out my HXCC award and need a few
more
> to
> > qualify. My time is currently flexible. If you have a Hex-Beam,
> > commercial or homebrew, and are available please drop me an E-
mail to
> > w6hb@ Thanks in advance!
> >
> > Doug
> >
>

3336. Re: Skeds...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-29 17:24:32 UTC
From: Colin
Topic: 3331 Message: 3336

Hi Ron,
There is a .pdf file in the files section (HXCC Award) that will
explain all.

--- In hex-beam@yahoogroups.com, "rkbower" <ronbower@...> wrote:
>
> What is an HXCC Award ???
>
> --- In hex-beam@yahoogroups.com, "Colin" <djcol1@> wrote:
> >
> > Hi Doug,
> >
> > Good to see interest in the HXCC award.
> > Thunderstorms and lightning here today, so getting an opening..
> doth
> > not bode well hi.
> > None the less, we can live in hope and i will be around on 20m
> about
> > 21.30 (UTC) tonight.
> >
> > If anyone else is interested in the HXCC award, I usually monitor
> 17m
> > (18.130) 13:00-14:30 utc most afternoons.
> > I`ll probably be that real weak station you hear with only 20w-
> 30w ..
> > but I`ll be more than happy to give you a point.
> >
> > 73
> > Colin m0xbm
> >
> >
> > --- In hex-beam@yahoogroups.com, "w6hb" <w6hb@> wrote:
> > >
> > > I am looking for QSOs to round out my HXCC award and need a few
> more
> > to
> > > qualify. My time is currently flexible. If you have a Hex-Beam,
> > > commercial or homebrew, and are available please drop me an E-
> mail to
> > > w6hb@ Thanks in advance!
> > >
> > > Doug
> > >
> >
>

3337. Re: [hex-beam] Re: Skeds...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-29 20:56:05 UTC
From: w6hb@aol.com
Topic: 3331 Message: 3337

Thanks Colin!

73 - Doug Dowds, W6HB
VP - United Radio Amateur Club, Inc.
Trustee - K6AA

[Non-text portions of this message have been removed]

3338. Re: [hex-beam] Re: Skeds...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-29 20:59:36 UTC
From: w6hb@aol.com
Topic: 3331 Message: 3338

Check out HXCC award under FILES.

73 - Doug Dowds, W6HB
VP - United Radio Amateur Club, Inc.
Trustee - K6AA

[Non-text portions of this message have been removed]

3339. Quick Hex Beam development web site

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-30 14:17:19 UTC
From: ion_moldovan
Topic: 3339 Message: 3339

www.langenau.com/hexbeam/

I started up with website that shows the development stages of the Quick Hex Beam. I will try to keep it up to date, so please visit it often if you want to learn about this new concept in hex beam design.

As a quick reminder, I am trying to develop this heax beam to keep the selling price at around 500 dollars. There is a forum there where you can leave me a message or even preorder one :)

73's

Ion Moldovan
KC8CDQ

3340. Re: Quick Hex Beam development web site

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-08-31 01:56:27 UTC
From: Colin
Topic: 3339 Message: 3340

Hi Ion
I like the hub idea, looks like a lot of work compared to a plate.

I can`t help but think those rods will cause the most problems in the long term.
The surface finish of the rods tends flake from uv,wind and rain etc after a year or so of exposure, which can look unsightly so you might need to consider some form of coating.

The other thing apart from the strength of thin wall of fishing poles is the thermal expansion properties of all the different materials involved.. fibreglass, aluminium, stainless steel etc.

With the normal hubplate there is a certain amount of buffering between plate,u-bolts and spreaders afforded by the short pvc tube sections.

It may not be an issue, but it seems to me if the rods are only eg: 0.5mm wall thickness, it won`t take much expansion to crack it, especially when under tension.

$500 is a good price compared to a genuine hexbeam.
If they both have the same maintenance requirements and longevity,it`s a real bargain. Without proper testing ,(perhaps, a year or so on a mast)it would be hard to predict with any certainty.

73
Colin
m0xbm

--- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@...>
wrote:
>
> www.langenau.com/hexbeam/
>
> I started up with website that shows the development stages of the
> Quick Hex Beam. I will try to keep it up to date, so please visit it
> often if you want to learn about this new concept in hex beam design.
>
> As a quick reminder, I am trying to develop this heax beam to keep
the
> selling price at around 500 dollars. There is a forum there where you
> can leave me a message or even preorder one :)
>
> 73's
>
> Ion Moldovan
> KC8CDQ

>

3342. Re: Use of insulated wire

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-01 20:07:16 UTC
From: ion_moldovan
Topic: 3324 Message: 3342

Has anybody used FLEXWEAVE□ 14 AWG with Black Polyethylene jacket
for their antenna. I am looking into using this for the Quick Hex
Beam. What is the velocity factor for that? I will do my own
testing with it, but a little bit of info would help.
Thanks

Ion Moldovan
KC8CDQ
www.langenau.com/hexbeam/

--- In hex-beam@yahoogroups.com, "slolawfirm" <philipas@...> wrote:
>
> Hi folks,
>
> I would like to use insulated wire for my home built hex beam. I
> recognize this will add a few pounds of weight which isn't a
problem.
> However, I am wondering whether the velocity factor would be
changed as
> a result or otherwise change the dimensions provided by the
pioneers of
> the homebuilt HEX beams.
>
> Any thoughts?
>
> Regards,
>
> Phil KM6CZ
>

3343. HDX Pushup Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-01 20:52:07 UTC
From: Ron Everett
Topic: 3343 Message: 3343

Hello, I am thinking about getting and installing Traffie's HDX pushup mast with the rotor at the bottom to turn the whole mast and Hex-beam. I plan to make it a semi-permanent installation as well by using Dacron rope with 770# strength. What I would like to hear from anyone who has the HDX mast how you like it and how it is holding up, etc. Please reply directly to me at w5rae@... <mailto:w5rae@...> rather than back through the group. Tnx & 73's, W5RAE Ron Everett
Plano, Texas
Mailto: w5rae@... <mailto:w5rae@...>

[Non-text portions of this message have been removed]

3344. Re: [hex-beam] HDX Pushup Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-01 22:32:32 UTC
From: Harold Burton
Topic: 3343 Message: 3344

```
----- Original Message -----
From: "Ron Everett" <w5rae@...>
To: <hex-beam@yahoogroups.com>
Sent: Friday, September 01, 2006 3:52 PM
Subject: [hex-beam] HDX Pushup Mast

What I would like to hear from anyone who has
> the HDX mast how you like it and how it is holding up, etc. Please
> reply directly to me at w5rae@... <mailto:w5rae@...> rather
> than back through the group.

Copy the group also, if you please, I'm sure we'd all like to know the
answer.

Harold
KD5SAK
```

3345. Re: Quick Hex Beam development web site

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-01 22:35:30 UTC
From: ion_moldovan
Topic: 3339 Message: 3345

I have used the same rods before without any problems. They have been up at 30feet for over a year now, and they hold up to some 50+mph winds. One of these days I'll take the beam down and take some pictures of the rods just to show people how the held up. I'll post them on my web site.

Ion Moldovan
KC8CDQ
www.langenau.com/hexbeam/

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@...> wrote:
>
> Hi Ion
> I like the hub idea, looks like a lot of work compared to a plate.
>
> I can`t help but think those rods will cause the most problems in the
> long term.
> The surface finish of the rods tends flake from uv,wind and rain etc
> after a year or so of exposure, which can look unsightly so you might
> need to consider some form of coating.
>
> The other thing apart from the strength of thin wall of fishing poles
> is the thermal expansion properties of all the different materials
> involved.. fibreglass, aluminium, stainless steel etc.
>
> With the normal hubplate there is a certain amount of buffering between
> plate,u-bolts and spreaders afforded by the short pvc tube sections.
>
> It may not be an issue, but it seems to me if the rods are only eg:
> 0.5mm wall thickness, it won`t take much expansion to crack it,
> especially when under tension.
>
> $500 is a good price compared to a genuine hexbeam.
> If they both have the same maintenance requirements and longevity,it`s
> a real bargain. Without proper testing ,(perhaps, a year or so on a
> mast)it would be hard to predict with any certainty.

>
> 73
> Colin
> m0xbm
>
>
>
>
> --- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@>
> wrote:
> >
> > www.langenau.com/hexbeam/
> >
> > I started up with website that shows the development stages of
the
> > Quick Hex Beam. I will try to keep it up to date, so please
visit it
> > often if you want to learn about this new concept in hex beam
design.
> >
> > As a quick reminder, I am trying to develop this heax beam to
keep
> the
> > selling price at around 500 dollars. There is a forum there
where you
> > can leave me a message or even preorder one :)
> >
> > 73's
> >
> > Ion Moldovan
> > KC8CDQ
> >
>

3346. Re: [hex-beam] HDX Pushup Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-02 02:11:51 UTC
From: bur52@aol.com
Topic: 3343 Message: 3346

Rohn 50 footer here.
2 years, at 40 feet works fine
JohnB

[Non-text portions of this message have been removed]

3347. RE: [hex-beam] HDX Pushup Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-03 14:13:34 UTC
From: Ed Fox
Topic: 3343 Message: 3347

I've used the Traffie HDX pushup in the configuration you've described for over 4 years with no problems. Just to be safe, I replaced the guy rope after 3 yrs and I also drilled a hole in the antenna hub to mast to secure the antenna (maybe Traffie predrills a hole at the top of his HDX masts now?). Ed, N0OQ (Minnesota)

>From: "Ron Everett" <w5rae@...>
>Reply-To: hex-beam@yahoogroups.com
>To: hex-beam@yahoogroups.com
>Subject: [hex-beam] HDX Pushup Mast
>Date: Fri, 01 Sep 2006 20:52:07 -0000
>
>Hello, I am thinking about getting and installing Traffie's HDX pushup
>mast with the rotor at the bottom to turn the whole mast and Hex-beam.
>I plan to make it a semi-permanent installation as well by using Dacron
>rope with 770# strength. What I would like to hear from anyone who has
>the HDX mast how you like it and how it is holding up, etc. Please
>reply directly to me at w5rae@... <mailto:w5rae@...> rather
>than back through the group. Tnx & 73's, W5RAE Ron Everett
>Plano, Texas
>Mailto: w5rae@... <mailto:w5rae@...>
>
>
>[Non-text portions of this message have been removed]
>

3348. Re: Quick Hex Beam development web site

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-03 17:28:25 UTC
From: Colin
Topic: 3339 Message: 3348

Hi Ion,
I`ve used them for quad spreaders and they performed quite well using the thickest parts of the rods, but in the case of a hex they will have to bend.

You mentioned you are using 11ft of a 16ft rod.
Over here the 5m (16ft)rod has a base section diameter of about 30mm, When you try to bend the rod to the correct curvature ..the chances are it will break. I haven`t managed to bend a 5m rod in the way you describe without failure..hence i switched to much stronger fibreglass tubes for the hex.

If you use the 2nd section as the largest size it should be ok, in which case you might as well use a 4m rod with the top removed, the spreader will be less rigid and smaller diameter at the tip.

You mention you already have a beam up using the rods, is it a 5 band hex or one that uses the rods as straight spreaders as in a quad or monoband hex?

73 Colin
m0xbm

--- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@...>
wrote:
>
> I have used the same rods before without any problems. They have
> been up at 30feet for over a year now, and they hold up to some
> 50+mph winds. One of these days I'll take the beam down and take
> some pictures of the rods just to show people how the held up. I'll
> post them on my web site.
>
> Ion Moldovan
> KC8CDQ
> www.langenau.com/hexbeam/
>
> --- In hex-beam@yahoogroups.com, "Colin" <djcol1@> wrote:
> >
> > Hi Ion
> > I like the hub idea, looks like a lot of work compared to a plate.
> >
> > I can`t help but think those rods will cause the most problems in
> the
> > long term.
> > The surface finish of the rods tends flake from uv,wind and rain
> etc

> > after a year or so of exposure, which can look unsightly so you
> might
> > need to consider some form of coating.
> >
> > The other thing apart from the strength of thin wall of fishing
> poles
> > is the thermal expansion properties of all the different
materials
> > involved.. fibreglass, aluminium, stainless steel etc.
> >
> > With the normal hubplate there is a certain amount of buffering
> between
> > plate,u-bolts and spreaders afforded by the short pvc tube
> sections.
> >
> > It may not be an issue, but it seems to me if the rods are only
> eg:
> > 0.5mm wall thickness, it won`t take much expansion to crack it,
> > especially when under tension.
> >
> > $500 is a good price compared to a genuine hexbeam.
> > If they both have the same maintenance requirements and
> longevity,it`s
> > a real bargain. Without proper testing ,(perhaps, a year or so on
> a
> > mast)it would be hard to predict with any certainty.
> >
> > 73
> > Colin
> > m0xbm
> >
> >
> >
> >
> > --- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@>
> > wrote:
> > >
> > > www.langenau.com/hexbeam/
> > >
> > > I started up with website that shows the development stages of
> the
> > > Quick Hex Beam. I will try to keep it up to date, so please
> visit it
> > > often if you want to learn about this new concept in hex beam
> design.
> > >
> > > As a quick reminder, I am trying to develop this heax beam to
> keep
> > the
> > > selling price at around 500 dollars. There is a forum there

> where you
> > > can leave me a message or even preorder one :)
> > >
> > > 73's
> > >
> > > Ion Moldovan
> > > KC8CDQ
> > >
> >
>

3349. Re: [hex-beam] Re: Skeds...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-03 18:49:02 UTC
From: Pieter & Petro du Toit
Topic: 3331 Message: 3349

Hi guys now got my hex beam up again after move here in New Zealand and wil be on the look ou for you guys on 20 , 17 m put up a list of freq and will look 20.00 utc 73 de ZL1PDT New Zealand
I'm not old only enjoying the traveling life !!
----- Original Message -----
From: rkbower
To: hex-beam@yahoogroups.com
Sent: Wednesday, August 30, 2006 4:55 AM
Subject: [hex-beam] Re: Skeds...

What is an HXCC Award ???

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@...> wrote:
>
> Hi Doug,
>
> Good to see interest in the HXCC award.
> Thunderstorms and lightning here today, so getting an opening..
doth
> not bode well hi.
> None the less, we can live in hope and i will be around on 20m
about
> 21.30 (UTC) tonight.
>
> If anyone else is interested in the HXCC award, I usually monitor
17m
> (18.130) 13:00-14:30 utc most afternoons.
> I`ll probably be that real weak station you hear with only 20w-
30w ..
> but I`ll be more than happy to give you a point.
>
> 73
> Colin m0xbm
>
>
> --- In hex-beam@yahoogroups.com, "w6hb" <w6hb@> wrote:
> >
> > I am looking for QSOs to round out my HXCC award and need a few
more
> to
> > qualify. My time is currently flexible. If you have a Hex-Beam,
> > commercial or homebrew, and are available please drop me an E-
mail to
> > w6hb@ Thanks in advance!
> >

> > Doug
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/428 - Release Date: 2006/08/25

[Non-text portions of this message have been removed]

3350. Re: Quick Hex Beam development web site

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-04 23:14:14 UTC
From: ion_moldovan
Topic: 3339 Message: 3350

It is a 5 band hex 20-10 and I have it up there for over a year now.
I will post some pictures on the website. I allready bend those rods
more than they should be bend without any problems...
73's
KC8CDQ
www.langenau.com/hexbeam/

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@...> wrote:
>
> Hi Ion,
> I`ve used them for quad spreaders and they performed quite well
using
> the thickest parts of the rods, but in the case of a hex they will
> have to bend.
>
> You mentioned you are using 11ft of a 16ft rod.
> Over here the 5m (16ft)rod has a base section diameter of about
30mm,
> When you try to bend the rod to the correct curvature ..the
chances
> are it will break. I haven`t managed to bend a 5m rod in the way
you
> describe without failure..hence i switched to much stronger
> fibreglass tubes for the hex.
>
> If you use the 2nd section as the largest size it should be ok, in
> which case you might as well use a 4m rod with the top removed,
the
> spreader will be less rigid and smaller diameter at the tip.
>
> You mention you already have a beam up using the rods, is it a 5
band
> hex or one that uses the rods as straight spreaders as in a quad
or
> monoband hex?
>
> 73 Colin
> m0xbm
>
>
> --- In hex-beam@yahoogroups.com, "ion_moldovan" <ion_moldovan@>
> wrote:
> >
> > I have used the same rods before without any problems. They have
> > been up at 30feet for over a year now, and they hold up to some

> > 50+mph winds. One of these days I'll take the beam down and take
> > some pictures of the rods just to show people how the held up.
I'll
> > post them on my web site.
> >
> > Ion Moldovan
> > KC8CDQ
> > www.langenau.com/hexbeam/
> >
> > --- In hex-beam@yahoogroups.com, "Colin" <djcol1@> wrote:
> > >
> > > Hi Ion
> > > I like the hub idea, looks like a lot of work compared to a
plate.
> > >
> > > I can`t help but think those rods will cause the most problems
in
> > the
> > > long term.
> > > The surface finish of the rods tends flake from uv,wind and
rain
> > etc
> > > after a year or so of exposure, which can look unsightly so
you
> > might
> > > need to consider some form of coating.
> > >
> > > The other thing apart from the strength of thin wall of
fishing
> > poles
> > > is the thermal expansion properties of all the different
> materials
> > > involved.. fibreglass, aluminium, stainless steel etc.
> > >
> > > With the normal hubplate there is a certain amount of
buffering
> > between
> > > plate,u-bolts and spreaders afforded by the short pvc tube
> > sections.
> > >
> > > It may not be an issue, but it seems to me if the rods are
only
> > eg:
> > > 0.5mm wall thickness, it won`t take much expansion to crack
it,
> > > especially when under tension.
> > >
> > > $500 is a good price compared to a genuine hexbeam.
> > > If they both have the same maintenance requirements and
> > longevity,it`s

> > > a real bargain. Without proper testing ,(perhaps, a year or so
on
> > a
> > > mast)it would be hard to predict with any certainty.
> > >
> > > 73
> > > Colin
> > > m0xbm
> > >
> > >
> > >
> > >
> > > --- In hex-beam@yahoogroups.com, "ion_moldovan"
<ion_moldovan@>
> > > wrote:
> > > >
> > > > www.langenau.com/hexbeam/
> > > >
> > > > I started up with website that shows the development stages
of
> > the
> > > > Quick Hex Beam. I will try to keep it up to date, so please
> > visit it
> > > > often if you want to learn about this new concept in hex
beam
> > design.
> > > >
> > > > As a quick reminder, I am trying to develop this heax beam
to
> > keep
> > > the
> > > > selling price at around 500 dollars. There is a forum there
> > where you
> > > > can leave me a message or even preorder one :)
> > > >
> > > > 73's
> > > >
> > > > Ion Moldovan
> > > > KC8CDQ
> > > >
> > >
> >
>

3351. Hexbeam photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-05 18:15:40 UTC
From: steveeh131047
Topic: 3351 Message: 3351

Hi Folks,

I've posted some photos of my "build" under "G3TXQ's HexBeam". There are one or two new ideas:
1) The bottom 12 inches of the centre post are reinforced with thickwall aluminium which is tapped to take the bracket bolts
2) Spreader supports are aluminium angle and tie-wraps .... only time will tell if they're strong enough.
3) I used plastic "wall plugs" glued into the end of the spreaders to provide end supports.

73,
Steve G3TXQ

3352. Re: Hexbeam photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-05 23:11:28 UTC
From: Colin
Topic: 3351 Message: 3352

Looks like you did a great job, Steve

It`s always interesting to see the different approaches used by homebrew hexbeam builders :)

The centerpost feed and element attachment methods are perhaps the most varied.
I came up with a few new ideas after some initial designs failed to make the grade,which may (or may not) be useful.
M6 brass dome nuts (with a hole drilled in the middle) are great for "inline" element attachment (no soldering required)

M6 brass bolts with heavy braided wire (4mm dia) makes a great feedline down the inside of the post (soldered to bolt heads)
http://usera.imagecave.com/djcol/Hexbeam/feedsystem1.jpg
http://usera.imagecave.com/djcol/Hexbeam/centerpost.jpg

The best method i`ve found so far for element to spreader attachment is very cheap and has minimal metal in the vicinity of the elements.
Assembly joints from "Wilko", 24 for under £2
M3.5 x 40mm nickel plated brass bolts, normally used for fixing lightswitch pattress to backing boxes, 1000 for £5 from electrical wholesalers, a bag of M3.5 brass nuts completes the job.

http://usera.imagecave.com/djcol/Hexbeam/elementtospreaderconnection.jpg
http://usera.imagecave.com/djcol/Hexbeam/AssemblyJoint.jpg

I`m sure your hexbeam will hold up to the good old British weather very well.
Have you had a chance to test the performance yet?

73
Colin M0XBM

--- In hex-beam@yahoogroups.com, "steveeh131047" <steve@...> wrote:
>
> Hi Folks,
>
> I've posted some photos of my "build" under "G3TXQ's HexBeam". There
> are one or two new ideas:
> 1) The bottom 12 inches of the centre post are reinforced with
> thickwall aluminium which is tapped to take the bracket bolts
> 2) Spreader supports are aluminium angle and tie-wraps .... only time
> will tell if they're strong enough.
> 3) I used plastic "wall plugs" glued into the end of the spreaders to
> provide end supports.
>

> 73,
> Steve G3TXQ
>

3353. Re: Hexbeam photos

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-06 19:03:18 UTC
From: steveeh131047
Topic: 3351 Message: 3353

Colin,

Thanks for the comments and the new ideas!

I've done some polar plots on all bands with a local amateur, and I've also "swung the beam" with a DL and a WD8 on 20m. They reported encouragingly high F/Bs of about 4 'S' points - in the case of the WD8 on a calibrated S meter (6dB per point). Results with the local amateur were more modest (between 1 and 3 S points) and more what I would have expected.

I have been working on a paper containing HexBeam modelling data, and some practical measurements on my beam, which K4KIO has kindly agreed to publish on his web site ..... watch this space for an announcement!

Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@...> wrote:
>
> Looks like you did a great job, Steve
>
> It`s always interesting to see the different approaches used by
> homebrew hexbeam builders :)
>
> The centerpost feed and element attachment methods are perhaps the
most
> varied.
> I came up with a few new ideas after some initial designs failed to
> make the grade,which may (or may not) be useful.
> M6 brass dome nuts (with a hole drilled in the middle) are great
> for "inline" element attachment (no soldering required)
>
> M6 brass bolts with heavy braided wire (4mm dia) makes a great
feedline
> down the inside of the post (soldered to bolt heads)
> http://usera.imagecave.com/djcol/Hexbeam/feedsystem1.jpg
> http://usera.imagecave.com/djcol/Hexbeam/centerpost.jpg
>
> The best method i`ve found so far for element to spreader
attachment is
> very cheap and has minimal metal in the vicinity of the elements.
> Assembly joints from "Wilko", 24 for under £2
> M3.5 x 40mm nickel plated brass bolts, normally used for fixing
> lightswitch pattress to backing boxes, 1000 for £5 from electrical
> wholesalers, a bag of M3.5 brass nuts completes the job.

>
>
http://usera.imagecave.com/djcol/Hexbeam/elementtospreaderconnection.j
pg
> http://usera.imagecave.com/djcol/Hexbeam/AssemblyJoint.jpg
>
> I`m sure your hexbeam will hold up to the good old British weather
very
> well.
> Have you had a chance to test the performance yet?
>
> 73
> Colin M0XBM
>
>
>
>
> --- In hex-beam@yahoogroups.com, "steveeh131047" <steve@> wrote:
> >
> > Hi Folks,
> >
> > I've posted some photos of my "build" under "G3TXQ's HexBeam".
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> > are one or two new ideas:
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> > thickwall aluminium which is tapped to take the bracket bolts
> > 2) Spreader supports are aluminium angle and tie-wraps .... only
time
> > will tell if they're strong enough.
> > 3) I used plastic "wall plugs" glued into the end of the
spreaders to
> > provide end supports.
> >
> > 73,
> > Steve G3TXQ
> >
>

3354. Understanding the HexBeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-07 08:20:33 UTC
From: steveeh131047
Topic: 3354 Message: 3354

Folks,

During the course of designing and constructing my HexBeam I carried out many hours of EZNEC simulation and made lots of practical measurements. This gave me an insight into the beam which I thought might be of interest to others.

Leo (K4KIO) has kindly turned my efforts into webpages which can be found at:

http://leoshoemaker.com/G3TXQhexbeam1.html

Our intention is to provide a link to this material from Leo's main site, thereby making it widely available; but before doing so we thought it prudent to offer it up to this group for review.

We're particularly interested to hear of any technical inaccuracies that it might contain. So please have a look at the material and E mail any comments to me at hexbeam@...

Thanks for your help.

Steve G3TXQ

3355. HexBeam...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-06 17:40:59 UTC
From: F5NZY
Topic: 3355 Message: 3355

Hello all,

Shame on me, I discovered very recently and it seems to correspond exactly to what I am looking for.

- no trap
- lightweight (can be mount on a mast with small rotator)
- highly resistive (wind, corrosion, ice and any bad weather condx)
- covers at least 5 bands from 10 thru 20m
- discret but fire up the sky for DX
- only one cable to feed the 5 bands

I live in Paris city and my roof is 35m up with a very good opening, all around 360°

Unfortunately, some workers are rebuilding entirely my roof's waterproofing and they plan to finish by the end of year.

I think I will purchase a Traffie HexBeam, but the price is very very high, especially there is shipping, and a lot of taxes (about 28%) to get it in France.

We have a secondary house, in Normandy, and I plan to build an HexBeam for our /P QTH.

I found good ideas on DL7IO, K4KIO, and a few others and I still need to check it carefully, but the project could be fun, and economic.

Of course the problem is to find/build all the necessary parts, especially the fiberglass tubes (at a good price) and the mounting plate.

If you have any advices, they will be more welcome here.

I need to confirm but I think a UK friend of mine, gave me an address in England and the price for 6 fiberglass tubes of 4 m will be only €65 (but I need to confirm it).

Hope to read from you, and I have the great wish to become a HexBeam user, before long.

73,
Steph, F5NZY

[Non-text portions of this message have been removed]

3356. G3TXQ Spreaders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-07 13:38:10 UTC
From: w2bxr
Topic: 3356 Message: 3356

Thanks Steve for the great write-up and photos of your hex beam. These have inspired me to try and build at least a 20m versiion. I would like to know what you used for spreaders?

Gene, W2BXR

3357. Re: G3TXQ Spreaders?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-07 21:29:07 UTC
From: steveeh131047
Topic: 3356 Message: 3357

Gene,

I used 4 metre (13ft) telescopic fishing poles obtained from an angling shop. These come in 4 sections, but you need to discard the end section because it is too flexible. The remaining 3 sections extend to about 10ft which is the minimum you need for a 20m capability.

I found some of my poles were shorter than others by up to 4 inches so it pays to check them carefully. If you use the sort of arrangement that I, or K4KIO, have used you gain a bit of length because the poles are held "outboard" of the baseplate.

The particular poles I used are made by a company called Shakespeare and their part number is 1056-400. I'm not sure whether they are available in the USA. You can take a look at one on the website of the UK shop I bought them from:

http://www.moefish.co.uk/

They are not expensive - 4.99 UK Pounds

I bought one pole first to check that it had the right amount of "bend" and only bought the others when I was happy! I didn't start drilling holes in the centre post until I had the "geometry" right and knew exactly at what height the various band elements would sit. I can heartily recommend K4KIO's method of "stringing" the framework - it worked a treat and I was able to do it single-handedly - no need to involve the XYL !!

Good luck,

Steve G3TXQ

--- In hex-beam@yahoogroups.com, "w2bxr" <eaonj@...> wrote:
>
> Thanks Steve for the great write-up and photos of your hex beam.
> These have inspired me to try and build at least a 20m versiion. I
> would like to know what you used for spreaders?
>
> Gene, W2BXR
>

3358. Re: HexBeam...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-08 22:01:11 UTC
From: Giancarlo Moda
Topic: 3355 Message: 3358

Hi Steph,

you can purchase fishing rods at Decathlon in France
and often at Casino, Carrefur and Auchan hypermarkets.

Fpor the Hex-beam you will need topurchase the 5
meters lenght and remove the top meter.

73

Gian
I7SWX
F5VGU

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3359. longer haul dx

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-14 16:48:39 UTC
From: Colin
Topic: 3359 Message: 3359

The hexbeam never ceases to amaze me, especially on the
longer haul dx.

I worked a JA station around lunchtime today on 17m with a 5/8 report
using just 50w. He was using a 4 ele monoband yagi and a kilowatt.

The hex is just 11ft high to the 20m element! and seems totally
oblivious to the fact that it shouldn`t be working dx too well.

Imho, given a very heavily compromised qth.. the hexbeam would be the
best antenna to put on the (probably really short) mast.

73
Colin m0xbm

3360. Beam Specs.

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-14 20:46:16 UTC
From: twr56@sbcglobal.net
Topic: 3360 Message: 3360

Hello,

Can anyone give me the specs for the 20 meter hex beam ? I am also thinking about adding 17 meters to it. And make a 17/20 meter hex beam. I would appreciate all the spreader lengths and wire lengths, ect.

Thank You
Tim..WX9C

[Non-text portions of this message have been removed]

3361. Re: Beam Specs.

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-15 00:30:36 UTC
From: Colin
Topic: 3360 Message: 3361

Hi Tim
Did you check Holger`s (DL7IO) website yet?

http://www.dl7io.de/reflectedw/index.html

I`m sure the info you need for a 17/20 dual bander is listed

73

--- In hex-beam@yahoogroups.com, <twr56@...> wrote:
>
> Hello,
>
> Can anyone give me the specs for the 20 meter hex beam ? I am also
thinking about adding 17 meters to it. And make a 17/20 meter hex
beam. I would appreciate all the spreader lengths and wire lengths,
ect.
>
> Thank You
> Tim..WX9C
>
> [Non-text portions of this message have been removed]
>

3362. Re: [hex-beam] longer haul dx

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-15 00:42:55 UTC
From: Transpacific
Topic: 3359 Message: 3362

Right on. 20M DX was open today and my Traffie Hex Beam was kickin' ass and takin' names!

Tom WA7OB

----- Original Message -----
From: Colin
To: hex-beam@yahoogroups.com
Sent: Thursday, September 14, 2006 9:48 AM
Subject: [hex-beam] longer haul dx

The hexbeam never ceases to amaze me, especially on the
longer haul dx.

I worked a JA station around lunchtime today on 17m with a 5/8 report
using just 50w. He was using a 4 ele monoband yagi and a kilowatt.

The hex is just 11ft high to the 20m element! and seems totally
oblivious to the fact that it shouldn`t be working dx too well.

Imho, given a very heavily compromised qth.. the hexbeam would be the
best antenna to put on the (probably really short) mast.

73
Colin m0xbm

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.3/447 - Release Date: 9/13/2006

[Non-text portions of this message have been removed]

3363. Re: longer haul dx

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-15 01:43:18 UTC
From: kc0rdg
Topic: 3359 Message: 3363

Wow! I love to hear these kinds of things! Posts such as yours, reviews on eHam and my QTH have me sold on the Hex. I would be interested in anyone elses experience with the Hexbeam, commerical or homebrew. I put an order in for one today. I cannot wait to put it up! I have passed the General written, just need to pass the code, and I'm at about 98% proficiency.

Elijah

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@...> wrote:
>
> The hexbeam never ceases to amaze me, especially on the
> longer haul dx.
>
> I worked a JA station around lunchtime today on 17m with a 5/8 report
> using just 50w. He was using a 4 ele monoband yagi and a kilowatt.
>
> The hex is just 11ft high to the 20m element! and seems totally
> oblivious to the fact that it shouldn`t be working dx too well.
>
> Imho, given a very heavily compromised qth.. the hexbeam would be the
> best antenna to put on the (probably really short) mast.
>
> 73
> Colin m0xbm
>

3364. Re: [hex-beam] Re: longer haul dx

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-15 01:59:47 UTC
From: Harold Burton
Topic: 3359 Message: 3364

```
----- Original Message -----
From: "kc0rdg" <kc0rdg@...>
To: <hex-beam@yahoogroups.com>
Sent: Thursday, September 14, 2006 8:43 PM
Subject: [hex-beam] Re: longer haul dx

> Wow! I love to hear these kinds of things! Posts such as yours,
> reviews on eHam and my QTH have me sold on the Hex. I would be
> interested in anyone elses experience with the Hexbeam, commerical or
> homebrew. I put an order in for one today. I cannot wait to put it
> up! I have passed the General written, just need to pass the code,
> and I'm at about 98% proficiency.
>
> Elijah
>

You're close enough, I arranged to take my code test when I was getting
about 95% on test QSOs. Took the Gen'l written the same night and
passed'em both. My license upgrade to General was official as of 5-13-05
(a friday the thirteenth by the way). GOOD LUCK! If the code test is
finally set aside having actually passed one will have a certain
prestige value (course we don't really care about that, do we?)

Harold
KD5SAK
```

3365. Re: longer haul dx

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-15 03:10:36 UTC
From: Colin
Topic: 3359 Message: 3365

Hi Elijah,

I believe commercial hexbeams are fully tested before dispatch so it should give optimum performance.

Mine is a homebrew, so it`s likely to be somewhat less than perfectly tuned.

Here`s a pic of the actual height of my hex to give you some idea of just how low it is

http://www.nurl.us/32l

As you can see it`s pretty much the worst scenario imaginable hi

The Hex doesn`t seem to mind though 50w = 6000 miles with a 5-8 report from Mako (JA2TQZ) isn`t too shabby considering.

Look forward to hearing you on 17m

73
Colin m0xbm

--- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@...> wrote:
>
> Wow! I love to hear these kinds of things! Posts such as yours,
> reviews on eHam and my QTH have me sold on the Hex. I would be
> interested in anyone elses experience with the Hexbeam, commerical
or
> homebrew. I put an order in for one today. I cannot wait to put it
> up! I have passed the General written, just need to pass the code,
> and I'm at about 98% proficiency.
>
> Elijah
>
> --- In hex-beam@yahoogroups.com, "Colin" <djcol1@> wrote:
> >
> > The hexbeam never ceases to amaze me, especially on the
> > longer haul dx.
> >
> > I worked a JA station around lunchtime today on 17m with a 5/8
report
> > using just 50w. He was using a 4 ele monoband yagi and a kilowatt.
> >
> > The hex is just 11ft high to the 20m element! and seems totally
> > oblivious to the fact that it shouldn`t be working dx too well.
> >

> > Imho, given a very heavily compromised qth.. the hexbeam would be
the
> > best antenna to put on the (probably really short) mast.
> >
> > 73
> > Colin m0xbm
> >
>

3366. Re: longer haul dx

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-15 08:47:53 UTC
From: steveeh131047
Topic: 3359 Message: 3366

Colin,

At that height you might really be able to convince the neighbours it's a rotary clothes line :) Mine's up at 20 feet and the XYL would struggle to reach it!

Only had mine up a couple of weeks but I've been having long "rag chews" with VKs the last couple of days on 20m, and on-air tests with VE7 and VE1 have shown very encouraging F/B ratios close to 20dB.

73,
Steve

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@...> wrote:
>
> Hi Elijah,
>
> I believe commercial hexbeams are fully tested before dispatch so
it
> should give optimum performance.
>
> Mine is a homebrew, so it`s likely to be somewhat less than
perfectly
> tuned.
>
> Here`s a pic of the actual height of my hex to give you some idea
of
> just how low it is
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> > > best antenna to put on the (probably really short) mast.
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>

3367. Re: Beam Specs.

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-15 09:01:36 UTC
From: steveeh131047
Topic: 3360 Message: 3367

Tim,

If you take the dimensions for the dual bander from Holger's EZNEC files, just be aware that the interconnecting feedline is modelled as HIGH impedance (somewhere around 250 Ohms) - you will not get the same SWR results as Holger if you use 50 Ohm coax!

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@...> wrote:
>
> Hi Tim
> Did you check Holger`s (DL7IO) website yet?
>
> http://www.dl7io.de/reflectedw/index.html
>
> I`m sure the info you need for a 17/20 dual bander is listed
>
> 73
>
>
>
> --- In hex-beam@yahoogroups.com, <twr56@> wrote:
> >
> > Hello,
> >
> > Can anyone give me the specs for the 20 meter hex beam ? I am
also
> thinking about adding 17 meters to it. And make a 17/20 meter hex
> beam. I would appreciate all the spreader lengths and wire
lengths,
> ect.
> >
> > Thank You
> > Tim..WX9C
> >
> > [Non-text portions of this message have been removed]
> >
>

3368. Re: Beam Specs.

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-15 09:25:34 UTC
From: dl7io
Topic: 3360 Message: 3368

Hello,
2 wires with a big diameter installed very close together should
never give a high impedance line. It is thought as a low impedance
line and easier to handle than coax cable.
I have measured the impedances and they are around 50 Ohm.
If the feedline should be 250 Ohm in my 17/20m model than I have to
check this again. But to get 250 Ohm I would need 4 or more cm
distance between the proposed wire.
73 Holger

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> Tim,
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> If you take the dimensions for the dual bander from Holger's EZNEC
> files, just be aware that the interconnecting feedline is modelled
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> HIGH impedance (somewhere around 250 Ohms) - you will not get the
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> 73,
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> > http://www.dl7io.de/reflectedw/index.html
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> > 73
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> >
> > --- In hex-beam@yahoogroups.com, <twr56@> wrote:
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> > > Hello,
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> > thinking about adding 17 meters to it. And make a 17/20 meter
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> > beam. I would appreciate all the spreader lengths and wire
> lengths,

> > ect.
> > >
> > > Thank You
> > > Tim..WX9C
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

3369. Re: Beam Specs.

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-15 10:37:30 UTC
From: steveeh131047
Topic: 3360 Message: 3369

Holger,

Your17/20m EZNEC file models the interconnect as 4mm diameter wire with 9mm spacing. The standard formula for air spaced line gives Zo as 180 Ohms for these dimensions. To confirm this I removed all wire elements from your model, leaving just the interconnect structure, and then put various resistive loads at the opposite end to the source. A 240 Ohm load results in a 240 Ohm resistive impedance at the source end over a wide frequency range, so I assume this is the characteristic impedance of the line. I think the difference between 180 and 240 is explained by your structure widening out a little at the connecting points - this wider spacing would raise the impedance.

On your 20/17m model the 20m Driver is quite short and exhibits a large (typically -j20) capacitive reactance at 14MHz. For a reasonable match at the bottom feedpoint this requires the 400mm of interconnect to be HIGH impedance. My Smith chart calculations show that, for an impedance of 30-j25 (typical of your short Driver), 400mm of 25 Ohm line would result in a SWR of 2.6:1 at the bottom feedpoint; whereas 400mm of 240 Ohm line produces an SWR of 1.7:1, so I would expect the interconnect to have to be relatively high impedance.

I have done a lot of modelling of various interconnect impedances and feedpoints, and have concluded that Top Feeding with 50 Ohm interconnects is a good compromise. I hope to be putting a fuller explanation with supporting numbers into my "Understanding the Hexbeam" paper on Leo's Web site.

Apologies if I have misunderstood your model :)

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@...> wrote:
>
> Hello,
> 2 wires with a big diameter installed very close together should
> never give a high impedance line. It is thought as a low impedance
> line and easier to handle than coax cable.
> I have measured the impedances and they are around 50 Ohm.
> If the feedline should be 250 Ohm in my 17/20m model than I have to
> check this again. But to get 250 Ohm I would need 4 or more cm
> distance between the proposed wire.
> 73 Holger
>

> >
> > Tim,
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> > If you take the dimensions for the dual bander from Holger's
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> > files, just be aware that the interconnecting feedline is
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> > HIGH impedance (somewhere around 250 Ohms) - you will not get the
> > same SWR results as Holger if you use 50 Ohm coax!
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> > Steve G3TXQ
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> > > Hi Tim
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> > > http://www.dl7io.de/reflectedw/index.html
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> > > I`m sure the info you need for a 17/20 dual bander is listed
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> > > 73
> > >
> > >
> > >
> > > --- In hex-beam@...m, <twr56@> wrote:
> > > >
> > > > Hello,
> > > >
> > > > Can anyone give me the specs for the 20 meter hex beam ? I
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> > also
> > > > thinking about adding 17 meters to it. And make a 17/20 meter
> hex
> > > > beam. I would appreciate all the spreader lengths and wire
> > lengths,
> > > > ect.
> > > >
> > > > Thank You
> > > > Tim..WX9C
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
>

3370. Re: longer haul dx

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-15 19:04:43 UTC
From: kc0rdg
Topic: 3359 Message: 3370

Amazing! Seeing that and hearing your report makes me happy to know that I think I've made the best decision I could for my QTH. Can you imagine a dipole at that height?! Mine will be up at about 25 feet or so mounted to the chimney. I just have to come up with a way to attach the rotator/mast/etc.

Currently I am using a Inverted-L.. it doesn't work well at all. I hear alot of static and only strong stations. This is of course because I was not able to put down alot of radials. I will be glad to have a beam and glad to have an antenna that is not fed off ground.

In regards to the other gentleman about me being ready for the code test, I feel that I am almost there. Maybe I don't have alot of confidence in myself, maybe I just prepare for the worst. I do know that I get nervous testing! As it is now, I know most of the letters but sometimes after hearing so many, I get some mixed up - G and W, B and 6, K and R being my most troublesome right now. I want to be at the point when I hear a letter, I get it right the first time, everytime and am never confused!

>
> Hi Elijah,
>
> I believe commercial hexbeams are fully tested before dispatch so it
> should give optimum performance.
>
> Mine is a homebrew, so it`s likely to be somewhat less than perfectly
> tuned.
>
> Here`s a pic of the actual height of my hex to give you some idea of
> just how low it is
>
> http://www.nurl.us/32l
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> As you can see it`s pretty much the worst scenario imaginable hi
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> report from Mako (JA2TQZ) isn`t too shabby considering.
>
> Look forward to hearing you on 17m
>
> 73
> Colin m0xbm

3371. Re: Beam Specs.

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-16 19:36:08 UTC
From: dl7io
Topic: 3360 Message: 3371

Hello Steve,
I always worried about that there might be something wrong with my model but that the mistake is so simple is somehow infuriating...
Good to have you in the group and thank you for the advise! One sometimes gets unseeing simple mistakes.
Nevertheless this is a mistake and not a wanted special design.

I'm thinking with EZNEC the distance given is between the middle of the wires, so 4mm wire and 9mm distance between the middle is 5mm between the outer diameters. Therefore it has to be changed to +/- 0,0025 to have the correct dimensions and will of course result in other DE lenghts.
My plan was to leave 1mm distance between the copper for any kind of insulation. With the newer versions we should include the wire insulation into the model.

I think we have to recalculate a few of the models.

73 Holger

--- In hex-beam@yahoogroups.com, "steveeh131047" <steve@...> wrote:
>
> Holger,
>
> Your17/20m EZNEC file models the interconnect as 4mm diameter wire
> with 9mm spacing. The standard formula for air spaced line gives Zo
> as 180 Ohms for these dimensions. To confirm this I removed all
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> elements from your model, leaving just the interconnect structure,
> and then put various resistive loads at the opposite end to the
> source. A 240 Ohm load results in a 240 Ohm resistive impedance at
> the source end over a wide frequency range, so I assume this is the
> characteristic impedance of the line. I think the difference
between
> 180 and 240 is explained by your structure widening out a little at
> the connecting points - this wider spacing would raise the
impedance.
>
> On your 20/17m model the 20m Driver is quite short and exhibits a
> large (typically -j20) capacitive reactance at 14MHz. For a
> reasonable match at the bottom feedpoint this requires the 400mm of
> interconnect to be HIGH impedance. My Smith chart calculations show
> that, for an impedance of 30-j25 (typical of your short Driver),
> 400mm of 25 Ohm line would result in a SWR of 2.6:1 at the bottom
> feedpoint; whereas 400mm of 240 Ohm line produces an SWR of 1.7:1,
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> I would expect the interconnect to have to be relatively high
> impedance.
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> I have done a lot of modelling of various interconnect impedances
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> feedpoints, and have concluded that Top Feeding with 50 Ohm
> interconnects is a good compromise. I hope to be putting a fuller
> explanation with supporting numbers into my "Understanding the
> Hexbeam" paper on Leo's Web site.
>
> Apologies if I have misunderstood your model :)
>
> 73,
> Steve G3TXQ
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>
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> --- In hex-beam@yahoogroups.com, "dl7io" <dl7io@> wrote:
> >
> > Hello,
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> > never give a high impedance line. It is thought as a low
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> > line and easier to handle than coax cable.
> > I have measured the impedances and they are around 50 Ohm.
> > If the feedline should be 250 Ohm in my 17/20m model than I have
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> > check this again. But to get 250 Ohm I would need 4 or more cm
> > distance between the proposed wire.
> > 73 Holger
> >
> > >
> > > Tim,
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> > > If you take the dimensions for the dual bander from Holger's
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> > > > Hi Tim
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> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > >
> > >
> >
>

3372. Hexbeam grounding

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-16 20:38:12 UTC
From: obiwan9325
Topic: 3372 Message: 3372

I'm thinking of running a ground wire from the ground rod to one of the nuts on the base of the hexbeam. Has anyone used this method?
Any other suggestions?

3373. Re: Beam Specs.

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-16 21:38:38 UTC
From: steveeh131047
Topic: 3360 Message: 3373

Holger,

Don't feel bad about making a mistake. In England we have a saying "The person who never made a mistake never made anything!"

Keep up the good work ... it was your Website, and Leo K4KIO's, that encouraged me to build a HexBeam, and all my practical experiments show that the dimensions on your 5 band Top Fed design work very well.

I think you will struggle to model a really low impedance line with EZNEC, even with very close wires. The standard formula from the ARRL Antenna handbook gives:

Zo=276.log(b/a)

where b is the centre-to-centre spacing of the wires and a is the RADIUS of the wires. As you approach ZERO spacing, b approaches 2a and the impedance is Zo=276.log(2) = 83 Ohms - still quite high.

I guess that in practice your flat,wide, connectors with a dielectric insulator between them will probably have a low impedance, but as far as I know you cannot model this arrangement in EZNEC. For all my modelling I have used EZNEC's Transmission Line facility to represent the interconnections - this allows me to easily try the effect of different Zo's, including very low and very high values.

As I said in an earlier posting, I have found 50 Ohm coax to be a good compromise between two conflicting requirements. Let me try to explain why I think this is. Suppose we have a bottom fed, two band (20/10m) Hexbeam:

1) At 28MHz the 20m Driver will be high impedance and the interconnecting line will look like an open-circuit stub shunting the feedpoint. The lower the line impedance, the lower the capacitive reactance it represents and the worse will be the effect on the SWR at the feedpoint; so we should choose a HIGH impedance line.

2) At 14MHz the 10m Driver is high impedance and doesn't much affect the SWR at the feedpoint. However, the interconnecting line modifies the impedance of the 20m Driver as seen at the feedpoint, and high line impedances modify it most - creating high SWRs at the feedpoint; so we should choose a LOW impedance.

50 Ohms turns out to be a reasonable compromise.

We can also see from this example why Top Feeding has advantages. When Top Feeding, the "open circuit stub problem" occurs at 14MHz; when Bottom Feeding the problem occurs at 28MHz, and is worse because

the electrical length of the stub is double at 10m compared to 20m.
Or viewed another way - the stub represents a fixed capacitance
(typically 70pf) which has a greater effect at 28MHz than at 14MHz. I
have confirmed this with measurements on my four-bander; when I
bottom fed it I had very poor 10m SWRs - they improved considerably
when I top fed it.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "dl7io" <dl7io@...> wrote:
>
> Hello Steve,
> I always worried about that there might be something wrong with my
> model but that the mistake is so simple is somehow infuriating...
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> the wires, so 4mm wire and 9mm distance between the middle is 5mm
> between the outer diameters. Therefore it has to be changed to +/-
> 0,0025 to have the correct dimensions and will of course result in
> other DE lenghts.
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> insulation. With the newer versions we should include the wire
> insulation into the model.
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> I think we have to recalculate a few of the models.
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> 73 Holger
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> > > > > > [Non-text portions of this message have been removed]
> > > > > >
> > > > >

> > > >
> > >
> >
>

3374. Re: Hexbeam grounding

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-17 00:18:06 UTC
From: Colin
Topic: 3372 Message: 3374

As the hexbeam has non metallic spreaders and centerpost you are really grounding just the mast.
You may as well attach it to the base of the mast and save some wire.
If the mast is in contact with the ground even that may be unnecessary.

To incorporate some lightning protection, a spark gap type arrestor in the coax line is probably the easiest option although in the unlikely event of a strike it`ll probably not be of much help hi

--- In hex-beam@yahoogroups.com, "obiwan9325" <transpacific@...> wrote:
>
> I'm thinking of running a ground wire from the ground rod to one of the
> nuts on the base of the hexbeam. Has anyone used this method?
> Any other suggestions?
>

3375. Re: [hex-beam] Hexbeam grounding

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-17 03:03:44 UTC
From: we1x@comcast.net
Topic: 3372 Message: 3375

Why? At best the only thing you're "grounding" is the base plate.

If you want some degree of lightening protection (a) put a lightening arrestor (e.g., AlphaDelta TransiTrap) on your coax and ground that to the ground rod, and (b) do same with lightening arrestor (ICE and PolyPhaser) for your rotator cable.

If you want an RF ground for some purpose (a) it doesn't require one, and (b) given the probable length of ground wire from ground rod to base plate you're not going to have an effective ground.

So not sure what you're trying to accomplish.

Harry WE1X

---------- Original message ----------
From: "obiwan9325" <transpacific@...>
I'm thinking of running a ground wire from the ground rod to one of the
nuts on the base of the hexbeam. Has anyone used this method?
Any other suggestions?

[Non-text portions of this message have been removed]

3376. Re: Beam Specs.

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-17 08:44:46 UTC
From: Giancarlo
Topic: 3360 Message: 3376

Hi Steve,

thanks a lot for your very interesting and important comments.

Yes, Holger has done a really good work with theHex-Beam design.

I have started one year ago to put aside the various bits and pieces
to build my hex-beam with some personal mechanical differences..hi
The problem is that I have not found the time to assemble the
antenne...other priorities ... hi.

I am sure there are a lot of members like me waiting for your report.

In Italy too is valid the saying "The person who never made a
mistake never made anything!" ... I made no mistakes (yet) as I
built no Hex .... hi

73

Gian
I7SWX

--- In hex-beam@yahoogroups.com, "steveeh131047" <steve@...> wrote:
>
> Holger,
>
> Don't feel bad about making a mistake. In England we have a
> saying "The person who never made a mistake never made anything!"
>
> Keep up the good work ... it was your Website, and Leo K4KIO's,
that
> encouraged me to build a HexBeam, and all my practical experiments
> show that the dimensions on your 5 band Top Fed design work very
well.
>
> I think you will struggle to model a really low impedance line
with
> EZNEC, even with very close wires. The standard formula from the
ARRL
> Antenna handbook gives:
>
> Zo=276.log(b/a)
>
..... (removed).....
>
> 73,
> Steve G3TXQ

>

3377. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-17 15:54:37 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 3377

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /Reflection Measurements PE1FJP.pdf
Uploaded by : pe1fjp <pe1fjp@...>
Description :

You can access this file at the URL:
http://groups.yahoo.com/group/hex-beam/files/Reflection%20Measurements%20PE1FJP.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

pe1fjp <pe1fjp@...>

3378. Re: New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-17 17:39:08 UTC
From: steveeh131047
Topic: 483 Message: 3378

Hi,

That's very interesting data. Can you let us know the wire dimensions
and feed arrangement that you were testing?

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, hex-beam@yahoogroups.com wrote:
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the hex-beam
> group.
>
> File : /Reflection Measurements PE1FJP.pdf
> Uploaded by : pe1fjp <pe1fjp@...>
> Description :
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/hex-beam/files/Reflection%
20Measurements%20PE1FJP.pdf
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/help/us/groups/files
>
> Regards,
>
> pe1fjp <pe1fjp@...>
>

3379. Re: New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-17 21:01:49 UTC
From: pe1fjp
Topic: 483 Message: 3379

Hi Steve,

I did use the data (wire and lenght) from DL7IO, the rings with the
feed system from ZS1WDK and the overal info from K4KIO.
Mine first attempt did go wrong because i did use to cheap fishing
poles and did not have the right wire.
But happy for me, on a ham market in Germany i did buy 250m from the
right wire for only 10 euro, which give me a lot of play ground.
In the first attempt the 50 MHz was much better than that it now is,
one of the reason can be that insulated wire was used.
Also is it so that i have the feeding point at the underside,
what perhaps the reason can be that 50 MHZ is now so bad.
Further investigation at my side must be done to solve this.
The first impression of this type antenna is above my expectation
and with more pleasure, also from the stations that i work.
As soon as i have more info i will let you now this.

73,
Wim PE1FJP

--- In hex-beam@yahoogroups.com, "steveeh131047" <steve@...> wrote:
>
> Hi,
>
> That's very interesting data. Can you let us know the wire
dimensions
> and feed arrangement that you were testing?
>
> 73,
> Steve G3TXQ
>
> --- In hex-beam@yahoogroups.com, hex-beam@yahoogroups.com wrote:
> >
> >
> > Hello,
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> > Uploaded by : pe1fjp <pe1fjp@>
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> > To learn more about file sharing for your group, please visit:
> > http://help.yahoo.com/help/us/groups/files
> >
> > Regards,
> >
> > pe1fjp <pe1fjp@>
> >
>

3380. Re: [hex-beam] Re: longer haul dx

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-19 14:44:36 UTC
From: edward campbell
Topic: 3359 Message: 3380

Great antenna...
I worked several JA's on 17 1st call... I use my FT100 and 100 watts and they are running monobanders and 500 watts. and get the same report. Worked a C9 and S9
and many in South America and usually 1st call maybe a 2nd needed to get thru. It still amazes me how good the antenna works against someone with amps and bigger antennas. Worked a DL during the NAQP and he was 30 0ver 9. He had a stacked pair of 5 element monobanders and a KW and he had me 10 over with 100 so...I am in Idaho competing against the east cost..sooo I have been very pleased on how it works..
Hope to hear you all on..
vy 73,
Ed NT4TT Idaho Falls, Id

kc0rdg <kc0rdg@...> wrote:
Amazing! Seeing that and hearing your report makes me happy to know that I think I've made the best decision I could for my QTH. Can you imagine a dipole at that height?! Mine will be up at about 25 feet or so mounted to the chimney. I just have to come up with a way to attach the rotator/mast/etc.

Currently I am using a Inverted-L.. it doesn't work well at all. I hear alot of static and only strong stations. This is of course because I was not able to put down alot of radials. I will be glad to have a beam and glad to have an antenna that is not fed off ground.

In regards to the other gentleman about me being ready for the code test, I feel that I am almost there. Maybe I don't have alot of confidence in myself, maybe I just prepare for the worst. I do know that I get nervous testing! As it is now, I know most of the letters but sometimes after hearing so many, I get some mixed up - G and W, B and 6, K and R being my most troublesome right now. I want to be at the point when I hear a letter, I get it right the first time, everytime and am never confused!

>
> Hi Elijah,
>
> I believe commercial hexbeams are fully tested before dispatch so it
> should give optimum performance.
>
> Mine is a homebrew, so it`s likely to be somewhat less than perfectly
> tuned.
>
> Here`s a pic of the actual height of my hex to give you some idea of
> just how low it is
>
> http://www.nurl.us/32l

>
> As you can see it`s pretty much the worst scenario imaginable hi
>
> The Hex doesn`t seem to mind though 50w = 6000 miles with a 5-8
> report from Mako (JA2TQZ) isn`t too shabby considering.
>
> Look forward to hearing you on 17m
>
> 73
> Colin m0xbm

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

3381. Re: New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-20 19:13:27 UTC
From: steveeh131047
Topic: 483 Message: 3381

Hi Wim,

Sorry to prolong this, but ....

Holger has several different files on his website with varying dimensions depending on the feed arrangement. Can you confirm that you have used the dimensions in his .pdf file documenting the 5 band Top Feed design?

As you have discovered, you get a very high SWR on 50MHz if you Bottom Feed. This is because at 50MHz the feedpoint is shunted by a long electrical length of unterminated feedline - approaching Lambda/4. Assuming that the impedance of the interconnections is 50 Ohms, and that the total length from top to bottom of the beam is approximately 800mm (31.5"), this will be the equivalent of connecting a 200pF capacitor across your feedpoint at 50MHz - this would change a 1:1 SWR into a 12:1 SWR!!! The effect will be even worse if the impedance of your interconnecting line is lower than 50 Ohms.

Top feeding will cause the same effect to occur at 14 MHz, but the impact will be much less - the equivalent of an 80pF capacitor, which would change a 1:1 SWR into a 1.4:1 SWR

There will be a fuller explanation of this in my paper on Leo (K4KIO)'s website soon.

73,
Steve

--- In hex-beam@yahoogroups.com, "pe1fjp" <pe1fjp@...> wrote:
>
> Hi Steve,
>
> I did use the data (wire and lenght) from DL7IO, the rings with the
> feed system from ZS1WDK and the overal info from K4KIO.
> Mine first attempt did go wrong because i did use to cheap fishing
> poles and did not have the right wire.
> But happy for me, on a ham market in Germany i did buy 250m from
the
> right wire for only 10 euro, which give me a lot of play ground.
> In the first attempt the 50 MHz was much better than that it now is,
> one of the reason can be that insulated wire was used.
> Also is it so that i have the feeding point at the underside,
> what perhaps the reason can be that 50 MHZ is now so bad.
> Further investigation at my side must be done to solve this.
> The first impression of this type antenna is above my expectation

> and with more pleasure, also from the stations that i work.
> As soon as i have more info i will let you now this.
>
> 73,
> Wim PE1FJP
>
>
>
>
> --- In hex-beam@yahoogroups.com, "steveeh131047" <steve@> wrote:
> >
> > Hi,
> >
> > That's very interesting data. Can you let us know the wire
> dimensions
> > and feed arrangement that you were testing?
> >
> > 73,
> > Steve G3TXQ
> >
> > --- In hex-beam@yahoogroups.com, hex-beam@yahoogroups.com wrote:
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> > >
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> > >
> > > Regards,
> > >
> > > pe1fjp <pe1fjp@>
> > >
> >
>

3382. Re: New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-20 19:24:46 UTC
From: steveeh131047
Topic: 483 Message: 3382

Wim,

I forgot to mention in my last posting that Insulated wire, or wire
of a different guage, both change the frequency of the beam. It is
very important to get the Reflector resonant at your operating
frequency - the Driver is much less critical. I would recommend you
use a dip meter if you have one to check the 50MHz Reflector

73,
Steve

--- In hex-beam@yahoogroups.com, "pe1fjp" <pe1fjp@...> wrote:
>
> Hi Steve,
>
> I did use the data (wire and lenght) from DL7IO, the rings with the
> feed system from ZS1WDK and the overal info from K4KIO.
> Mine first attempt did go wrong because i did use to cheap fishing
> poles and did not have the right wire.
> But happy for me, on a ham market in Germany i did buy 250m from
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> right wire for only 10 euro, which give me a lot of play ground.
> In the first attempt the 50 MHz was much better than that it now is,
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> what perhaps the reason can be that 50 MHZ is now so bad.
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> and with more pleasure, also from the stations that i work.
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> 73,
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> --- In hex-beam@yahoogroups.com, "steveeh131047" <steve@> wrote:
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> > >
> > > Hello,
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> > > To learn more about file sharing for your group, please visit:
> > > http://help.yahoo.com/help/us/groups/files
> > >
> > > Regards,
> > >
> > > pe1fjp <pe1fjp@>
> > >
> >
>

3383. Re: [hex-beam] Re: New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-21 00:08:56 UTC
From: Mike Van Winkle
Topic: 483 Message: 3383

Eh OM if da reflector be resonant hit ain't a
weflector..HuhUHuh!!!LOL!...Really it isn't Relectors
are longer than resonance!!!W4HV

--- steveeh131047 <steve@...> wrote:

> Wim,
>
> I forgot to mention in my last posting that
> Insulated wire, or wire
> of a different guage, both change the frequency of
> the beam. It is
> very important to get the Reflector resonant at your
> operating
> frequency - the Driver is much less critical. I
> would recommend you
> use a dip meter if you have one to check the 50MHz
> Reflector
>
> 73,
> Steve
>
> --- In hex-beam@yahoogroups.com, "pe1fjp"
> <pe1fjp@...> wrote:
> >
> > Hi Steve,
> >
> > I did use the data (wire and lenght) from DL7IO,
> the rings with the
> > feed system from ZS1WDK and the overal info from
> K4KIO.
> > Mine first attempt did go wrong because i did use
> to cheap fishing
> > poles and did not have the right wire.
> > But happy for me, on a ham market in Germany i did
> buy 250m from
> the
> > right wire for only 10 euro, which give me a lot
> of play ground.
> > In the first attempt the 50 MHz was much better
> than that it now is,
> > one of the reason can be that insulated wire was
> used.
> > Also is it so that i have the feeding point at the
> underside,

> > what perhaps the reason can be that 50 MHZ is now
> so bad.
> > Further investigation at my side must be done to
> solve this.
> > The first impression of this type antenna is above
> my expectation
> > and with more pleasure, also from the stations
> that i work.
> > As soon as i have more info i will let you now
> this.
> >
> > 73,
> > Wim PE1FJP
> >
> >
> >
> >
> > --- In hex-beam@yahoogroups.com, "steveeh131047"
> <steve@> wrote:
> > >
> > > Hi,
> > >
> > > That's very interesting data. Can you let us
> know the wire
> > dimensions
> > > and feed arrangement that you were testing?
> > >
> > > 73,
> > > Steve G3TXQ
> > >
> > > --- In hex-beam@yahoogroups.com,
> hex-beam@yahoogroups.com wrote:
> > > >
> > > >
> > > > Hello,
> > > >
> > > > This email message is a notification to let
> you know that
> > > > a file has been uploaded to the Files area of
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> > > > File : /Reflection Measurements
> PE1FJP.pdf
> > > > Uploaded by : pe1fjp <pe1fjp@>
> > > > Description :
> > > >
> > > > You can access this file at the URL:
> > > >
>

http://groups.yahoo.com/group/hex-beam/files/Reflection%
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> > > > To learn more about file sharing for your
> group, please visit:
> > > > http://help.yahoo.com/help/us/groups/files
> > > >
> > > > Regards,
> > > >
> > > > pe1fjp <pe1fjp@>
> > > >
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Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3384. Re: New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-21 10:21:23 UTC
From: steveeh131047
Topic: 483 Message: 3384

Hi W4HV,

You raise an interesting issue.

What you say is true for "conventional" parasitic Yagis and quads, but not beams like the Hex where the element ends are very close together. In fact if you look at some VK2ABQ beam designs you'll see that the Driver and Reflector are the same length. In simple terms, designers are using the element end spacing as another design freedom in addition to (and sometimes as an alternative to) Reflector "detuning" and boom length.

If you need convincing by the maths, read Moxon's book "HF Antennas for all locations", chapter 5 on close spaced beams.

If you don't like the look of the maths (and I wouldn't blame you!) try running a HexBeam through something like EZNEC. Find the frequency of maximum F/B, find the frequency of maximum Reflector current, then remove the Driver wires and find the frequency where the Reflector is resonant.

Just did that myself:

Max F/B at 14.140 MHz
Max Reflector current at 14.120 MHz
Reflector resonance at 14.140 MHz

Do the same for a yagi and you'll find the Reflector is resonant well below the frequency of maximum F/B.

So ... really (for a HexBeam) it is!

73,
Steve G3TXQ

>--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...>
wrote:
>
> Eh OM if da reflector be resonant hit ain't a
> weflector..HuhUHuh!!!LOL!...Really it isn't Relectors
> are longer than resonance!!!W4HV
>
> --- steveeh131047 <steve@...> wrote:
>
> > Wim,
> >
> > I forgot to mention in my last posting that

> > Insulated wire, or wire
> > of a different guage, both change the frequency of
> > the beam. It is
> > very important to get the Reflector resonant at your
> > operating
> > frequency - the Driver is much less critical. I
> > would recommend you
> > use a dip meter if you have one to check the 50MHz
> > Reflector
> >
> > 73,
> > Steve
> >
> > --- In hex-beam@yahoogroups.com, "pe1fjp"
> > <pe1fjp@> wrote:
> > >
> > > Hi Steve,
> > >
> > > I did use the data (wire and lenght) from DL7IO,
> > the rings with the
> > > feed system from ZS1WDK and the overal info from
> > K4KIO.
> > > Mine first attempt did go wrong because i did use
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> > underside,
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> > my expectation
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> > that i work.
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> > >
> > > 73,
> > > Wim PE1FJP
> > >

> > >
> > >
> > >
> > > --- In hex-beam@yahoogroups.com, "steveeh131047"
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> > > > Hi,
> > > >
> > > > That's very interesting data. Can you let us
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> > > > 73,
> > > > Steve G3TXQ
> > > >
> > > > --- In hex-beam@yahoogroups.com,
> > hex-beam@yahoogroups.com wrote:
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> > > > > Hello,
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> > > > > File : /Reflection Measurements
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> > group, please visit:
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> > > > >
> > > > > Regards,
> > > > >
> > > > > pe1fjp <pe1fjp@>
> > > > >
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>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

3385. Re: [hex-beam] Re: New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-21 16:40:43 UTC
From: Mike Van Winkle
Topic: 483 Message: 3385

I agree that Moxons research agrees with you on close spacing..Espescially in models that are run in Ez , however putting the modeling down(which is programmed to reflect this phenomina)and actually building it I have found the parameter to continue to exhibit the other way ...Relector longer...Sometimes its in where you measure from and the type of feed used...End spacing and coupling of the elements can give a capacitive loading effect giving an apparent length change that is not actual as well...Its an interesting study!!!Glad to paticipate in it!

--- steveeh131047 <steve@...> wrote:

> Hi W4HV,
>
> You raise an interesting issue.
>
> What you say is true for "conventional" parasitic
> Yagis and quads,
> but not beams like the Hex where the element ends
> are very close
> together. In fact if you look at some VK2ABQ beam
> designs you'll see
> that the Driver and Reflector are the same length.
> In simple terms,
> designers are using the element end spacing as
> another design freedom
> in addition to (and sometimes as an alternative to)
> Reflector "detuning" and boom length.
>
> If you need convincing by the maths, read Moxon's
> book "HF Antennas
> for all locations", chapter 5 on close spaced beams.
>
> If you don't like the look of the maths (and I
> wouldn't blame you!)
> try running a HexBeam through something like EZNEC.
> Find the
> frequency of maximum F/B, find the frequency of
> maximum Reflector
> current, then remove the Driver wires and find the
> frequency where
> the Reflector is resonant.
>

> Just did that myself:
>
> Max F/B at 14.140 MHz
> Max Reflector current at 14.120 MHz
> Reflector resonance at 14.140 MHz
>
>
> Do the same for a yagi and you'll find the Reflector
> is resonant well
> below the frequency of maximum F/B.
>
> So ... really (for a HexBeam) it is!
>
> 73,
> Steve G3TXQ
>
> >--- In hex-beam@yahoogroups.com, Mike Van Winkle
> <janmike2001@...>
> wrote:
> >
> > Eh OM if da reflector be resonant hit ain't a
> > weflector..HuhUHuh!!!LOL!...Really it isn't
> Relectors
> > are longer than resonance!!!W4HV
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> > --- steveeh131047 <steve@...> wrote:
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> > > the beam. It is
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> > > frequency - the Driver is much less critical. I
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> > > use a dip meter if you have one to check the
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> > > Reflector
> > >
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> > > Steve
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> > > --- In hex-beam@yahoogroups.com, "pe1fjp"
> > > <pe1fjp@> wrote:
> > > >
> > > > Hi Steve,

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> > > > I did use the data (wire and lenght) from
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> > > the rings with the
> > > > feed system from ZS1WDK and the overal info
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> > > > 73,
> > > > Wim PE1FJP
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> > > > --- In hex-beam@yahoogroups.com,
> "steveeh131047"
> > > <steve@> wrote:

> > > > >
> > > > > Hi,
> > > > >
> > > > > That's very interesting data. Can you let us
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3386. Re: New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-21 18:07:50 UTC
From: steveeh131047
Topic: 483 Message: 3386

Mike,

Thanks for that.

Just to clarify ... I'm not saying that the Reflector shouldn't be longer than the Driver. I'm simply saying that wherever the Reflector is self-resonant is where you'll get best F/B. That's what EZNEC says and that's what I found doing polar plots at different frequencies with a local Ham on my 4 bander.

I guess we can both at least agree that this is real interesting stuff!

Regards,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...>
wrote:
>
> I agree that Moxons research agrees with you on close
> spacing..Espescially in models that are run in Ez ,
> however putting the modeling down(which is programmed
> to reflect this phenomina)and actually building it I
> have found the parameter to continue to exhibit the
> other way ...Relector longer...Sometimes its in where
> you measure from and the type of feed used...End
> spacing and coupling of the elements can give a
> capacitive loading effect giving an apparent length
> change that is not actual as well...Its an interesting
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> --- steveeh131047 <steve@...> wrote:
>
> > Hi W4HV,
> >
> > You raise an interesting issue.
> >
> > What you say is true for "conventional" parasitic
> > Yagis and quads,
> > but not beams like the Hex where the element ends
> > are very close
> > together. In fact if you look at some VK2ABQ beam
> > designs you'll see
> > that the Driver and Reflector are the same length.
> > In simple terms,
> > designers are using the element end spacing as

> > another design freedom
> > in addition to (and sometimes as an alternative to)
> > Reflector "detuning" and boom length.
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> > If you need convincing by the maths, read Moxon's
> > book "HF Antennas
> > for all locations", chapter 5 on close spaced beams.
> >
> > If you don't like the look of the maths (and I
> > wouldn't blame you!)
> > try running a HexBeam through something like EZNEC.
> > Find the
> > frequency of maximum F/B, find the frequency of
> > maximum Reflector
> > current, then remove the Driver wires and find the
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> > Just did that myself:
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> > Max F/B at 14.140 MHz
> > Max Reflector current at 14.120 MHz
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> > Do the same for a yagi and you'll find the Reflector
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> > below the frequency of maximum F/B.
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3387. 40 meter antenna

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-22 03:10:25 UTC
From: mherboltzheimer
Topic: 3387 Message: 3387

Can anyone tell me the price and size of the 40m version?

Thanks

3388. Re: New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-22 04:01:19 UTC
From: w4wb
Topic: 483 Message: 3388

Steve,

In Traffie's 1995 paper, it is evident that the reflector is longer
than the driven element as one should expect. I note that whenever
I forget which element is which when I have taken the antenna down
and then putting it up again, I can always tell the reflector from
the driven element by its longer length. EZNEC is fun and
instructive, but it doesn't really model this antenna correctly. A
nice feature is that it can be mistune some and still give
reasonable performance, but not optimal.

73,
Barry W4WB

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> Mike,
>
> Thanks for that.
>
> Just to clarify ... I'm not saying that the Reflector shouldn't be
> longer than the Driver. I'm simply saying that wherever the
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> is self-resonant is where you'll get best F/B. That's what EZNEC
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> with a local Ham on my 4 bander.
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3389. Re: New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-22 07:51:03 UTC
From: steveeh131047
Topic: 483 Message: 3389

Barry,

Sorry to keep prolonging the discussion, but there seems to be a misunderstanding about what I am saying :)

I have NEVER said that the Reflector should not be longer than the Driver - it should be longer, and IS on all my EZNEC models and the real one that's sitting on top of my rotator. What I'm saying is: wherever the Reflector is resonant, that will be the frequency of best F/B. I'm not just claiming that on the basis of EZNEC, it was what I found in practice.

My interest in all this is to try to help people tune their beams. If you don't somehow get the Reflector tuned to the right Freq. you may be tempted to adjust the beam by tuning for best SWR. That's a recipe for poor performance as my notes on Leo's (K4KIO) Web site tries to explain.

Now I'll shut up and crawl back in my box :)

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@...> wrote:
>
> Steve,
>
> In Traffie's 1995 paper, it is evident that the reflector is longer
> than the driven element as one should expect. I note that whenever
> I forget which element is which when I have taken the antenna down
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> > > >
> > > > Just did that myself:
> > > >
> > > > Max F/B at 14.140 MHz
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> > > > Do the same for a yagi and you'll find the Reflector
> > > > is resonant well
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> > > > > weflector..HuhUHuh!!!LOL!...Really it isn't
> > > > Relectors
> > > > > are longer than resonance!!!W4HV
> > > > >
> > > > > --- steveeh131047 <steve@> wrote:
> > > > >
> > > > > > Wim,
> > > > > >
> > > > > > I forgot to mention in my last posting that
> > > > > > Insulated wire, or wire
> > > > > > of a different guage, both change the frequency
> > > > of
> > > > > > the beam. It is
> > > > > > very important to get the Reflector resonant at
> > > > your
> > > > > > operating

> > > > > > frequency - the Driver is much less critical. I
> > > > > > would recommend you
> > > > > > use a dip meter if you have one to check the
> > > > 50MHz
> > > > > > Reflector
> > > > > >
> > > > > > 73,
> > > > > > Steve
> > > > > >
> > > > > > --- In hex-beam@yahoogroups.com, "pe1fjp"
> > > > > > <pe1fjp@> wrote:
> > > > > > >
> > > > > > > Hi Steve,
> > > > > > >
> > > > > > > I did use the data (wire and lenght) from
> > > > DL7IO,
> > > > > > the rings with the
> > > > > > > feed system from ZS1WDK and the overal info
> > > > from
> > > > > > K4KIO.
> > > > > > > Mine first attempt did go wrong because i did
> > > > use
> > > > > > to cheap fishing
> > > > > > > poles and did not have the right wire.
> > > > > > > But happy for me, on a ham market in Germany i
> > > > did
> > > > > > buy 250m from
> > > > > > the
> > > > > > > right wire for only 10 euro, which give me a
> > > > lot
> > > > > > of play ground.
> > > > > > > In the first attempt the 50 MHz was much
> > > > better
> > > > > > than that it now is,
> > > > > > > one of the reason can be that insulated wire
> > > > was
> > > > > > used.
> > > > > > > Also is it so that i have the feeding point at
> > > > the
> > > > > > underside,
> > > > > > > what perhaps the reason can be that 50 MHZ is
> > > > now
> > > > > > so bad.
> > > > > > > Further investigation at my side must be done
> > > > to
> > > > > > solve this.
> > > > > > > The first impression of this type antenna is
> > > > above
> > > > > > my expectation
> > > > > > > and with more pleasure, also from the stations

> > > > > > that i work.
> > > > > > > As soon as i have more info i will let you now
> > > > > > this.
> > > > > > >
> > > > > > > 73,
> > > > > > > Wim PE1FJP
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > --- In hex-beam@yahoogroups.com,
> > > > "steveeh131047"
> > > > > <steve@> wrote:
> > > > > > >
> > > > > > > Hi,
> > > > > > >
> > > > > > > That's very interesting data. Can you let us
> > > > > > know the wire
> > > > > > dimensions
> > > > > > > and feed arrangement that you were testing?
> > > > > > >
> > > > > > > 73,
> > > > > > > Steve G3TXQ
> > > > > > >
> > > > > > > --- In hex-beam@yahoogroups.com,
> > > > > hex-beam@yahoogroups.com wrote:
> > > > > > >
> > > > > > >
> > > > > > > Hello,
> > > > > > >
> > > > > > > This email message is a notification to
> > > > let
> > > > > you know that
> > > > > > > a file has been uploaded to the Files area
> > > > of
> > > > the hex-beam
> > > > > > > group.
> > > > > > >
> > > > > > > File : /Reflection Measurements
> > > > > PE1FJP.pdf
> > > > > > > Uploaded by : pe1fjp <pe1fjp@>
> > > > > > > Description :
> > > > > > >
> > > > > > > You can access this file at the URL:
> > > > > > >
> > > > > >
> > > > >
> > > >
> > > > http://groups.yahoo.com/group/hex-beam/files/Reflection%
> > > > > > > 20Measurements%20PE1FJP.pdf

> > > > > > > > >
> > > > > > > > > To learn more about file sharing for your
> > > > > > group, please visit:
> > > > > > > > > http://help.yahoo.com/help/us/groups/files
> > > > > > > > > >
> > > > > > > > > Regards,
> > > > > > > > > >
> > > > > > > > > pe1fjp <pe1fjp@>
> > > > > > > > > >
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> > > > > _____
> > > > > Do You Yahoo!?
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>

3390. Understanding the HexBeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-22 20:44:21 UTC
From: Leo Shoemaker
Topic: 3354 Message: 3390

If you are planning to build a hexbeam, are you puzzled as to whether to feed your hexbeam from the top or the bottom?

Should you use coax to connect between the bands or heavy wire?

And are you focused on getting low SWR, no matter what?

You might get some insight on these as well as other aspects of hexbeam design from Understanding the Hexbeam by G3TXQ. Steve has given me permission to add this fine piece of modeling work to my hexbeam website. You can check it out here.

73,

Leo, K4KIO

[Non-text portions of this message have been removed]

3391. Understanding the hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-22 21:29:05 UTC
From: k4kio
Topic: 3391 Message: 3391

Sometimes, I wish interacting with the Yahoo user group was as simple as building a hexbeam:)

Here is the link for the site referenced in my previous posting.

http://leoshoemaker.com/hexbeambyk4kio/understanding1.html

73, Leo, K4KIO

3392. Re: [hex-beam] Re: New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-22 22:54:20 UTC
From: Mike Van Winkle
Topic: 483 Message: 3392

Steve actually you said it should be resonant! Now the only way that can happen is if the reflector length is equal to the driven or has loading or something to resonate it!...MOST hex beamers have figured out this is not correct...If you model it or just put it together and start cutting this holds true..but I didn't intend to put you on the hot seat so to speak...Hey guys cut him some extra element length!!!(SLACK)...He is one of us nuts...W4HV

--- steveeh131047 <steve@...> wrote:

> Barry,
>
> Sorry to keep prolonging the discussion, but there
> seems to be a
> misunderstanding about what I am saying :)
>
> I have NEVER said that the Reflector should not be
> longer than the
> Driver - it should be longer, and IS on all my EZNEC
> models and the
> real one that's sitting on top of my rotator. What
> I'm saying is:
> wherever the Reflector is resonant, that will be the
> frequency of
> best F/B. I'm not just claiming that on the basis of
> EZNEC, it was
> what I found in practice.
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> My interest in all this is to try to help people
> tune their beams. If
> you don't somehow get the Reflector tuned to the
> right Freq. you may
> be tempted to adjust the beam by tuning for best
> SWR. That's a recipe
> for poor performance as my notes on Leo's (K4KIO)
> Web site tries to
> explain.
>
> Now I'll shut up and crawl back in my box :)
>
> 73,
> Steve G3TXQ
>

>
>
>
> --- In hex-beam@yahoogroups.com, "w4wb" <w4wb@...>
> wrote:
> >
> > Steve,
> >
> > In Traffie's 1995 paper, it is evident that the
> reflector is longer
> > than the driven element as one should expect. I
> note that whenever
> > I forget which element is which when I have taken
> the antenna down
> > and then putting it up again, I can always tell
> the reflector from
> > the driven element by its longer length. EZNEC is
> fun and
> > instructive, but it doesn't really model this
> antenna correctly. A
> > nice feature is that it can be mistune some and
> still give
> > reasonable performance, but not optimal.
> >
> > 73,
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> >
> > --- In hex-beam@yahoogroups.com, "steveeh131047"
> <steve@> wrote:
> > >
> > > Mike,
> > >
> > > Thanks for that.
> > >
> > > Just to clarify ... I'm not saying that the
> Reflector shouldn't
> be
> > > longer than the Driver. I'm simply saying that
> wherever the
> > Reflector
> > > is self-resonant is where you'll get best F/B.
> That's what EZNEC
> > says
> > > and that's what I found doing polar plots at
> different
> frequencies
> > > with a local Ham on my 4 bander.
> > >
> > > I guess we can both at least agree that this is
> real interesting

> > > stuff!
> > >
> > > Regards,
> > > Steve G3TXQ
> > >
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> Ez ,
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> programmed
> > > > to reflect this phenomina)and actually
> building it I
> > > > have found the parameter to continue to
> exhibit the
> > > > other way ...Relector longer...Sometimes its
> in where
> > > > you measure from and the type of feed
> used...End
> > > > spacing and coupling of the elements can give
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> interesting
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> > > >
> > > > > Hi W4HV,
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> > > > > You raise an interesting issue.
> > > > >
> > > > > What you say is true for "conventional"
> parasitic
> > > > > Yagis and quads,
> > > > > but not beams like the Hex where the element
> ends
> > > > > are very close
> > > > > together. In fact if you look at some VK2ABQ
> beam
> > > > > designs you'll see
> > > > > that the Driver and Reflector are the same
> length.
> > > > > In simple terms,
> > > > > designers are using the element end spacing

> as
> > > > > another design freedom
> > > > > in addition to (and sometimes as an
> alternative to)
> > > > > Reflector "detuning" and boom length.
> > > > >
> > > > > If you need convincing by the maths, read
> Moxon's
> > > > > book "HF Antennas
> > > > > for all locations", chapter 5 on close
> spaced beams.
> > > > >
> > > > > If you don't like the look of the maths (and
> I
> > > > > wouldn't blame you!)
> > > > > try running a HexBeam through something like
> EZNEC.
> > > > > Find the
> > > > > frequency of maximum F/B, find the frequency
> of
> > > > > maximum Reflector
> > > > > current, then remove the Driver wires and
> find the
> > > > > frequency where
> > > > > the Reflector is resonant.
> > > > >
> > > > > Just did that myself:
> > > > >
> > > > > Max F/B at 14.140 MHz
> > > > > Max Reflector current at 14.120 MHz
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> > > > >
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> resonant at
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http://mail.yahoo.com

3393. Re: longer haul dx

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-22 20:40:37 UTC
From: Clay K7HC
Topic: 3359 Message: 3393

--- In hex-beam@yahoogroups.com, edward campbell <ah2beecamp@...>
wrote:
>
> Great antenna...
> I worked several JA's on 17 1st call... I use my FT100 and 100
watts and they are running monobanders and 500 watts. and get the
same report. Worked a C9 and S9
Worked a DL during the NAQP and he was 30 0ver 9. He had a stacked
pair of 5 element monobanders and a KW and he had me 10 over with
100 so...I am in Idaho competing against the east cost..sooo I have
been very pleased on how it works..
> Hope to hear you all on..
> vy 73,
> Ed NT4TT Idaho Falls, Id
>

Something you need to consider - - When "the other guy" is using a 5
element monobander, you get the benefit of his antenna gain. When
you work someone with 100 watts and a hexbeam, or 100 watts and a
windom, then you can thank your hex, but thinking you are doing
something special working a big gun station with a hex is something
you should give more consideration to. Reports are all over the
map, and you never know the exact conditions...
Clay - K7HC

3394. Re: New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-23 08:39:40 UTC
From: steveeh131047
Topic: 483 Message: 3394

OK guys just one more try, because we may have differing definitions of words like "resonant" :)

This is what I did on EZNEC, and then checked it on the REAL antenna:

1) Load the support structure with only a 20m Reflector and split it at the centre.
2) Trim its length until its impedance has ZERO reactance at 14.100 MHz (that's my definition of RESONANT; and yes, I did take account of the length of coax joining the Reflector to my analyser:))
3) Re-Join the two halves of the Reflector having noted its final length. Just to be sure, check with a dip meter that its still resonant at 14.100 MHz
4) Added a Driver cut 1.5% shorter than the Reflector length.
5) Measure the beam impedance at the centre of the Driver at intervals across the band. As predicted beam was resonant at about 14MHz (SWR=3.6 Z=14+j0), SWR was 2.3 at 14.100 and fell to low values above 14.100 MHz
5) Carry out F/B tests on EZNEC, and for real with a local Ham 2 miles away, at 50KHz steps through the band. Didn't rely on his S meter - adjusted the power at my end for the same reading his end!
6) Result - BEST F/B WAS AT 14.100 MHz

That's what I mean when I say I get best F/B at the frequency where the Reflector is resonant!

K4KIO, Leo, recently was disappointed with his on-air F/B performance and trimmed his Reflector for resonance higher up the band. Result - better F/B at the cost of some degradation in SWR.

Plenty of other folk, including Mike Traffie, say that the best F/B comes at frequencies where the SWR is deteriorating rapidly, so I think I'm in good company here!

W4HV - thanks for the appeal to treat me gently - I don't want to start the "war of independence" all over again; after all, we lost the first time :)

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...>
wrote:
>
> Steve actually you said it should be resonant! Now the
> only way that can happen is if the reflector length is
> equal to the driven or has loading or something to

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> > be tempted to adjust the beam by tuning for best
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> > for poor performance as my notes on Leo's (K4KIO)
> > Web site tries to
> > explain.
> >
> > Now I'll shut up and crawl back in my box :)
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> _____
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3395. Re: longer haul dx

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-23 08:45:51 UTC
From: steveeh131047
Topic: 3359 Message: 3395

Clay,

You're right to add a word of caution. I guess one good test is how the Hex beam performs in a "DX Pileup" when you're competing with the "big boys" and you're all benefitting the same from the guy's equipment "at the other end".

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Clay K7HC" <k7hc@...> wrote:
>
> --- In hex-beam@yahoogroups.com, edward campbell <ah2beecamp@>
> wrote:
> >
> > Great antenna...
> > I worked several JA's on 17 1st call... I use my FT100 and
100
> watts and they are running monobanders and 500 watts. and get the
> same report. Worked a C9 and S9
> Worked a DL during the NAQP and he was 30 0ver 9. He had a stacked
> pair of 5 element monobanders and a KW and he had me 10 over with
> 100 so...I am in Idaho competing against the east cost..sooo I have
> been very pleased on how it works..
> > Hope to hear you all on..
> > vy 73,
> > Ed NT4TT Idaho Falls, Id
> >
>
> Something you need to consider - - When "the other guy" is using a
5
> element monobander, you get the benefit of his antenna gain. When
> you work someone with 100 watts and a hexbeam, or 100 watts and a
> windom, then you can thank your hex, but thinking you are doing
> something special working a big gun station with a hex is something
> you should give more consideration to. Reports are all over the
> map, and you never know the exact conditions...
> Clay - K7HC
>

3396. 30/40 MegaHex

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-23 22:07:04 UTC
From: Clay K7HC
Topic: 3396 Message: 3396

I am well on the way to constructing a 30/40 MegaHex! I have many obstacles that I must get past, but I am sure that I can complete it as planned. Whether it works or not is another question. I have uploaded some early pictures of the project to the Photo section, and will show more as I go along.

I became interested in the Hex because it is lighter, cheaper, and much smaller (turning radius) than other antennas. While it does not have super performance, it is good. When you consider that doubling your power will provide about 3 db increase in your signal, and f/b will cancel a significant amount of received QRM and QRN, it makes it VERY worthwhile!

I intend to document this project on a website (if it actually works)

3397. Re: [hex-beam] Re: longer haul dx

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-25 12:24:45 UTC
From: edward campbell
Topic: 3359 Message: 3397

Clay,
true you never know the conditions. BUT you do know yours. And you do know if you get through somewhat easily that something is working well. You also know where you are as compared to the rest of the world. And knowing how most times working against the coastlines can be very hard. Being me in Idaho working against the East coast working into Africa or Europe and having to compete against them and am able to get thru sometimes 1st or 2nd call (and sometimes 100 calls) says something I would think. I would like to use an amp with the beam to see how it works and compare it to what I have been doing since MArch. Worked several with hex beams this weekend. And they are all very happy with the beam. As am I..
Again as you say the other station with more metal in the air will always do better. I will not kid myself BUT you got to get the signal to that staion for him to hear you.. And the hex so far has done that.

Vy 73,
Ed NT4TT

Clay K7HC <k7hc@...> wrote:
--- In hex-beam@yahoogroups.com, edward campbell <ah2beecamp@...>
wrote:
>
> Great antenna...
> I worked several JA's on 17 1st call... I use my FT100 and 100
watts and they are running monobanders and 500 watts. and get the
same report. Worked a C9 and S9
Worked a DL during the NAQP and he was 30 0ver 9. He had a stacked
pair of 5 element monobanders and a KW and he had me 10 over with
100 so...I am in Idaho competing against the east cost..sooo I have
been very pleased on how it works..
> Hope to hear you all on..
> vy 73,
> Ed NT4TT Idaho Falls, Id
>

Something you need to consider - - When "the other guy" is using a 5
element monobander, you get the benefit of his antenna gain. When
you work someone with 100 watts and a hexbeam, or 100 watts and a
windom, then you can thank your hex, but thinking you are doing
something special working a big gun station with a hex is something
you should give more consideration to. Reports are all over the
map, and you never know the exact conditions...
Clay - K7HC

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

3398. Re: 30/40 MegaHex

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-25 20:09:50 UTC
From: Clay K7HC
Topic: 3396 Message: 3398

In case anyone might be interested - As shown in the pictures I uploaded under K7HC, I used 1 1/2" saddle clamps over 1 1/4" EMT to secure spreaders to the base plate. I had a difficult time locating saddle clamps, and when I did, I found a stock sell-out on these items. I bought the whole stock, so if anyone might want to acquire some 1 1/2" saddle clamps 9same as shown in the photos), I have a small stock of surplus..
Clay - K7HC

--- In hex-beam@yahoogroups.com, "Clay K7HC" <k7hc@...> wrote:
>
> I am well on the way to constructing a 30/40 MegaHex! I have many
> obstacles that I must get past, but I am sure that I can complete it
> as planned. Whether it works or not is another question. I have
> uploaded some early pictures of the project to the Photo section,
and
> will show more as I go along.
>

3399. Height above ground

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-25 18:02:05 UTC
From: ae6rhxx
Topic: 3399 Message: 3399

I am considering putting up a Hex-beam, but live in a CC & R controlled community. Does anyone have any info on how low the ground the antenna can be and still get out OK? I'd really like to know where the knee of the curve is; can it be used at 10 feet above ground? I assume 40 feet would be great, but how much degradation in received/transmitted signal could I expect at 30 feet? 20 feet? 15 feet? Also, has anyone tried disguising the antenna? Some type of cover making it look like an unbrella?

3400. Re: Height above ground

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-27 08:34:02 UTC
From: steveeh131047
Topic: 3399 Message: 3400

Hi,

Just ran an EZNEC simulation of a 20m HexBeam at various heights which might give you some sort of "feel" for the height penalties. The model assumes that the surrounding ground is perfectly flat and has "Medium" ground conductivity and permittivity. Of course you wont have a perfectly flat ground extending to infinity (!) and so reflection and absorption from the "clutter" of other structures will likely make the performance at low heights even worse. I assumed a take-off angle of 10 degrees - typical of DX contacts. Figures are quoted relative to the performance at 40 feet:

40' 0dB
35' -1.1dB
30' -2.6dB
25' -4.1dB
20' -5.9dB
15' -7.9dB
10' -10.7dB
5' -16.2dB

There was also some degradation of F/B at the very low heights.

EZNEC isn't perfect :) but these figures should be in the right ballpark. The drop from 10' to 5' looks like a real "killer" - nearly an S point.

During testing I had my Hex at 15' and had some encouraging contacts with it. I was able to do A/B tests on 20m with a Butternut HF5B at 20ft - sometimes no difference, sometimes the Hex better, but never was the Hex worse.

Remember that a 5 band Hex is about 3' tall, so if the 20m element is at 15' the 10m element will only be at 12'

Hope this helps.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "ae6rhxx" <AE6RH@...> wrote:
>
> I am considering putting up a Hex-beam, but live in a CC & R controlled
> community. Does anyone have any info on how low the ground the antenna
> can be and still get out OK? I'd really like to know where the

knee of
> the curve is; can it be used at 10 feet above ground? I assume 40
feet
> would be great, but how much degradation in received/transmitted
signal
> could I expect at 30 feet? 20 feet? 15 feet? Also, has anyone
tried
> disguising the antenna? Some type of cover making it look like an
> unbrella?
>

3401. Re: [hex-beam] Height above ground

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-27 16:13:53 UTC
From: Transpacific
Topic: 3399 Message: 3401

I've seen it mounted on the ground w/o a 3' mast and it worked effectively. This would really appear to be a clothes hanger for laundry in your CC&R community.
Tom WA7OB

----- Original Message -----
From: ae6rhxx
To: hex-beam@yahoogroups.com
Sent: Monday, September 25, 2006 11:02 AM
Subject: [hex-beam] Height above ground

I am considering putting up a Hex-beam, but live in a CC & R controlled community. Does anyone have any info on how low the ground the antenna can be and still get out OK? I'd really like to know where the knee of the curve is; can it be used at 10 feet above ground? I assume 40 feet would be great, but how much degradation in received/transmitted signal could I expect at 30 feet? 20 feet? 15 feet? Also, has anyone tried disguising the antenna? Some type of cover making it look like an unbrella?

[Non-text portions of this message have been removed]

3402. Re: Height above ground

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-27 18:02:45 UTC
From: rkbower
Topic: 3399 Message: 3402

Mine is a home-made tri-bander and the baseplate is a bit under 20' to the ground. The rotor is in a ground-mounted home-made mini-tower. I have it "tucked in" behind my garage so the top is about 2-3 feet above the garage roof line -- not really hidden (I do not have restrictions), but need to keep the neighbors (and XYL) happy.

I run 50-60W maximum and have never had difficulty even in severe DX pile-ups. I work mostly 20M -- both SSB and CW.

--- In hex-beam@yahoogroups.com, "Transpacific" <transpacific@...> wrote:
>
> I've seen it mounted on the ground w/o a 3' mast and it worked effectively. This would really appear to be a clothes hanger for laundry in your CC&R community.
> Tom WA7OB
>
> ----- Original Message -----
> From: ae6rhxx
> To: hex-beam@yahoogroups.com
> Sent: Monday, September 25, 2006 11:02 AM
> Subject: [hex-beam] Height above ground
>
>
> I am considering putting up a Hex-beam, but live in a CC & R controlled
> community. Does anyone have any info on how low the ground the antenna
> can be and still get out OK? I'd really like to know where the knee of
> the curve is; can it be used at 10 feet above ground? I assume 40 feet
> would be great, but how much degradation in received/transmitted signal
> could I expect at 30 feet? 20 feet? 15 feet? Also, has anyone tried
> disguising the antenna? Some type of cover making it look like an
> unbrella?
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

3403. Re: Height above ground

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-28 06:25:35 UTC
From: Colin
Topic: 3399 Message: 3403

I have a 5 bander up at that sort of height (~11ft to the 20m element)
and it seems to do ok.
If you inverted it (as in an umbrella) the 20m elements would be 3ft
lower and at 19ft across.. it`d also catch some serious wind once
covered in fabric or poly!

Mine is brilliant white but still quite unobtrusive considering. A
paint job to make it blend into the background would probably be a
good idea.

73
Colin
m0xbm

--- In hex-beam@yahoogroups.com, "ae6rhxx" <AE6RH@...> wrote:
>
> I am considering putting up a Hex-beam, but live in a CC & R
controlled
> community. Does anyone have any info on how low the ground the
antenna
> can be and still get out OK? I'd really like to know where the
knee of
> the curve is; can it be used at 10 feet above ground? I assume 40
feet
> would be great, but how much degradation in received/transmitted
signal
> could I expect at 30 feet? 20 feet? 15 feet? Also, has anyone
tried
> disguising the antenna? Some type of cover making it look like an
> unbrella?
>

3404. Re: 30/40 MegaHex

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-28 19:46:05 UTC
From: slolawfirm
Topic: 3396 Message: 3404

Looks like a good project... I will be building one which utilizes RG-58 cable (VF of 0.66) which allows the elements to be a third shorter... the only part that I'm uncertain about is to what extent the 40M elements will affect the 15m elements (first attempt will be 40-10m hexbeam, dropping 40m or 15m if the higher bands are detuned.)

--- In hex-beam@...m, "Clay K7HC" <k7hc@...> wrote:
>
> I am well on the way to constructing a 30/40 MegaHex! I have many
> obstacles that I must get past, but I am sure that I can complete
it
> as planned. Whether it works or not is another question. I have
> uploaded some early pictures of the project to the Photo section,
and
> will show more as I go along.
>
> I became interested in the Hex because it is lighter, cheaper, and
> much smaller (turning radius) than other antennas. While it does
not
> have super performance, it is good. When you consider that
doubling
> your power will provide about 3 db increase in your signal, and
f/b
> will cancel a significant amount of received QRM and QRN, it makes
it
> VERY worthwhile!
>
> I intend to document this project on a website (if it actually
works)
>

3405. Re: 30/40 MegaHex

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-29 08:07:15 UTC
From: steveeh131047
Topic: 3396 Message: 3405

The 40m element impedance will be quite low at the third harmonic (15m) and take a significant amount of power from the interconnecting feed. Of course this power will get radiated, but not necessarily in the direction you want! - I would expect gain and F/B to suffer when operating at 21 MHz.

But good luck - it sounds a very interesting project!

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "slolawfirm" <philipas@...> wrote:
>
> Looks like a good project... I will be building one which utilizes
> RG-58 cable (VF of 0.66) which allows the elements to be a third
> shorter... the only part that I'm uncertain about is to what extent
> the 40M elements will affect the 15m elements (first attempt will
be
> 40-10m hexbeam, dropping 40m or 15m if the higher bands are
detuned.)
>
>
> --- In hex-beam@yahoogroups.com, "Clay K7HC" <k7hc@> wrote:
> >
> > I am well on the way to constructing a 30/40 MegaHex! I have
many
> > obstacles that I must get past, but I am sure that I can complete
> it
> > as planned. Whether it works or not is another question. I have
> > uploaded some early pictures of the project to the Photo section,
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> > much smaller (turning radius) than other antennas. While it does
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> > have super performance, it is good. When you consider that
> doubling
> > your power will provide about 3 db increase in your signal, and
> f/b
> > will cancel a significant amount of received QRM and QRN, it
makes
> it
> > VERY worthwhile!
> >

> > I intend to document this project on a website (if it actually
> works)
> >
>

3406. Re: 30/40 MegaHex

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-29 09:24:18 UTC
From: dl7io
Topic: 3396 Message: 3406

Hello,
I found in practice that the 40m elements are radiating quite well on 15m. This happened with all built combination from 40m single band up to the 4-bander. You will find some changes between the different 40m+ versions because the stub length is differing with every additional band while I'm feeding always from the bottom. We had this disccusion shortly with the 20m+ versions (top or bottom feeding).

We have done field measurements with a 40/30/20m version about 3 years ago. And as I remember we had a fine F/B of about 18 dB on 15m. We could not measure the maximum gain at around +/-(30-40)° like EZNEC shows. The forward signal was over the range of +/- 30° or 35° at the same level. The side suppression was much smaller compared to the bands which had own elements (40/30/20)m. If needed I can check the documentation of our field tests when I'm back home.

Results while DXing also were very promising and therfore I never added an own 15m element. I expected more problems than real advantages.

There is a file called "radiation_diagram_DL7IO-40-4.pdf" in the file section, subdirectory DL7IO.

73 Holger

--- In hex-beam@yahoogroups.com, "steveeh131047" <steve@...> wrote:
>
> The 40m element impedance will be quite low at the third harmonic
> (15m) and take a significant amount of power from the
interconnecting
> feed. Of course this power will get radiated, but not necessarily
in
> the direction you want! - I would expect gain and F/B to suffer
when
> operating at 21 MHz.
>
> But good luck - it sounds a very interesting project!
>
> 73,
> Steve G3TXQ
>
>
>
> --- In hex-beam@yahoogroups.com, "slolawfirm" <philipas@> wrote:
> >
> > Looks like a good project... I will be building one which

utilizes
> > RG-58 cable (VF of 0.66) which allows the elements to be a third
> > shorter... the only part that I'm uncertain about is to what
extent
> > the 40M elements will affect the 15m elements (first attempt will
> be
> > 40-10m hexbeam, dropping 40m or 15m if the higher bands are
> detuned.)
> >
> >
> > --- In hex-beam@yahoogroups.com, "Clay K7HC" <k7hc@> wrote:
> > >
> > > I am well on the way to constructing a 30/40 MegaHex! I have
> many
> > > obstacles that I must get past, but I am sure that I can
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> > it
> > > as planned. Whether it works or not is another question. I
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> > > I intend to document this project on a website (if it actually
> > works)
> > >
> >
>

3407. Adgacent antenna interaction

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-28 01:36:14 UTC
From: floormold
Topic: 3407 Message: 3407

I'm looking for feedback on installing the HX-5Bi on the same mast as a 5 element 6 meter yagi. Can this be done and if so how far apart should the two be?

I think another option could be to use the HX-5Bi on 6 meters with a tuner but I would immagine the performance would be poor.

Thanks.
Jeff, N1NKR

3408. Re: [hex-beam] Height above ground

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-27 11:24:26 UTC
From: David H. Walker
Topic: 3399 Message: 3408

ae6rhxx wrote:
>
>
> I am considering putting up a Hex-beam, but live in a CC & R controlled
> community. Does anyone have any info on how low the ground the antenna
> can be and still get out OK? I'd really like to know where the knee of
> the curve is; can it be used at 10 feet above ground? I assume 40 feet
> would be great, but how much degradation in received/transmitted signal
> could I expect at 30 feet? 20 feet? 15 feet? Also, has anyone tried
> disguising the antenna? Some type of cover making it look like an
> unbrella?
>
>
> ----------
> If this email is spam, report it here:
> http://www.OnlyMyEmail.com/ReportSpam
> <http://www.OnlyMyEmail.com/reportSpam?Id=MTY1ODI6MTcxNzczNTUwOmswY29wQG9ubHlteWVtYWlsLm
NvbQ%3D%3D>
>
When I was testing my 5el hexbeam I had it about 6ft off the ground and
made several EU contacts from Aiken,SC. It happens that the conditions
were very poor that day! Sooo if you can get the antenna as high as you
can.. The antenna from a distance is very difficult to spot.
73
Dave

--
David H. Walker
K0cop
Aiken, SC

3409. Height above ground

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-28 16:24:38 UTC
From: nasa820
Topic: 3399 Message: 3409

What about installation above a metal roof building? Would it be considered perfect ground? Would I be measuring the height above the "ground" or above the roof? What about the effect 'near' a metal roof building?

I am looking at over 180 degrees of salt water extending out from 25,000 ft to more than 75,000 feet. I'm assuming that is perfectly level! I'm on a 'high bank' with the ground level about 80 feet above the water.

My QTH offers opportunities and challenges. The metal roof potentially offers a good ground plane for a vertical, and the salt water an ideal surface for a low takeoff angle. But, despite a lot of experimenting, I've yet to really avail myself of the potential benefits and get the "big kick" I think is hiding in this QTH.

With the hex-beam, my ideas are in the direction of a relatively low mount (say 5-10 feet) above the ground, but that would be 80+ feet above the sea. The antenna would be about 100 feet in-shore of the water line, so the question is what would have the greater influence, the ground immediately below the antenna or the sea water in front?

A lot of questions! Thanks in advance to the group.

My QTH here, bottom half of the page: http://www.rbogash.com/ham.html

Bob Bogash
W7DDD

3410. RE: [hex-beam] Height above ground

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-28 21:02:40 UTC
From: Terry Cantrell
Topic: 3399 Message: 3410

The optimal height is 34 feet above ground but it works great at lower levels..mine's at about 20 ft and I can work just about anything I can hear.good luck.this is truly a great antenna almost at any height you might want to try.

73's

Terry, W4WTC

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of Transpacific
Sent: Wednesday, September 27, 2006 12:14 PM
To: hex-beam@yahoogroups.com
Subject: Re: [hex-beam] Height above ground

I've seen it mounted on the ground w/o a 3' mast and it worked effectively. This would really appear to be a clothes hanger for laundry in your CC&R community.
Tom WA7OB

----- Original Message -----
From: ae6rhxx
To: hex-beam@yahoogroup <mailto:hex-beam%40yahoogroups.com> s.com
Sent: Monday, September 25, 2006 11:02 AM
Subject: [hex-beam] Height above ground

I am considering putting up a Hex-beam, but live in a CC & R controlled community. Does anyone have any info on how low the ground the antenna can be and still get out OK? I'd really like to know where the knee of the curve is; can it be used at 10 feet above ground? I assume 40 feet would be great, but how much degradation in received/transmitted signal could I expect at 30 feet? 20 feet? 15 feet? Also, has anyone tried disguising the antenna? Some type of cover making it look like an unbrella?

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3411. Re: Adgacent antenna interaction

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-30 19:06:04 UTC
From: steveeh131047
Topic: 3407 Message: 3411

Jim,

Yet another option might be to string a 6 meter element on the HX-5Bi
and feed it with a separate feedline - several folk on the Group seem
to have built succesful "6 banders".

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "floormold" <jad1@...> wrote:
>
> I'm looking for feedback on installing the HX-5Bi on the same mast as
> a 5 element 6 meter yagi. Can this be done and if so how far apart
> should the two be?
>
> I think another option could be to use the HX-5Bi on 6 meters with a
> tuner but I would immagine the performance would be poor.
>
> Thanks.
> Jeff, N1NKR
>

3412. Re: [hex-beam] Understanding the hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-22 22:00:05 UTC
From: John Tait
Topic: 3391 Message: 3412

k4kio wrote:
> Sometimes, I wish interacting with the Yahoo user group was as simple
> as building a hexbeam:)
>
> Here is the link for the site referenced in my previous posting.
>
> http://leoshoemaker.com/hexbeambyk4kio/understanding1.html
>
> 73, Leo, K4KIO
>
I found it with Google... It's a wonderful treatise.. Many thanks Steve
and Leo.

73
John EI7BA

3413. Re: Height above ground

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-01 08:25:59 UTC
From: steveeh131047
Topic: 3399 Message: 3413

Bob,

It depends on the "geometry" of your situation and the take-off angles you are interested in; a bit of High School trig will then give you an answer. Picture the sea and the roof as two reflectors, and work out whether the reflected wave (coming downwards from the antenna) will reach the sea, or will be reflected off the roof before it reaches the sea.

For example, say your antenna was 5' above the roof and the roof extended 30' from the base of the antenna in the direction of the sea. For take-off angles of 10 degrees or less the reflected wave will not be "shielded" by the roof and will reach the sea; so the effective height would be 80+. For take-off angles greater than 10 degrees, reflection will take place from the roof so the effective height would be 5'.

But don't forget that putting the antenna very low to the roof could result in some serious de-tuning effects. And don't forget we've only considered one direction!

Sounds like a great location though ..... any chance of a swap, Bob :)

Apologies if this is a repeat posting, the first one seems to have got lost.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "nasa820" <nasa820@...> wrote:
>
> What about installation above a metal roof building? Would it be
> considered perfect ground? Would I be measuring the height above
the
> "ground" or above the roof? What about the effect 'near' a metal
roof
> building?
>
> I am looking at over 180 degrees of salt water extending out from
> 25,000 ft to more than 75,000 feet. I'm assuming that is perfectly
> level! I'm on a 'high bank' with the ground level about 80 feet
above
> the water.
>
> My QTH offers opportunities and challenges. The metal roof
> potentially offers a good ground plane for a vertical, and the salt
> water an ideal surface for a low takeoff angle. But, despite a lot

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> experimenting, I've yet to really avail myself of the potential
> benefits and get the "big kick" I think is hiding in this QTH.
>
> With the hex-beam, my ideas are in the direction of a relatively low
> mount (say 5-10 feet) above the ground, but that would be 80+ feet
> above the sea. The antenna would be about 100 feet in-shore of the
> water line, so the question is what would have the greater
influence,
> the ground immediately below the antenna or the sea water in front?
>
> A lot of questions! Thanks in advance to the group.
>
> My QTH here, bottom half of the page:
http://www.rbogash.com/ham.html
>
> Bob Bogash
> W7DDD
>

3414. Re: Height above ground

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-09-30 18:46:35 UTC
From: steveeh131047
Topic: 3399 Message: 3414

Bob,

The answer to your question depends in part on how far the metal roof extends away from the base of the antenna, and on the take-off angles you're interested in. Think of the the metal roof and the sea as reflecting surfaces (mirrors). At the low angles of elevation you're probably interested in for DX (say 10 degrees or less) would the reflected wave from the antenna (10 degrees BELOW the horizontal) be reflected from the metal roof, or would it miss the edge of the roof and reach the sea. A bit of High School trigonometry should give you the answer.

If the reflected wave will miss the roof, you're in pretty good shape; if not, height above the metal roof is the important factor.

If my maths is right, at take-off angles of 10 degrees or lower, with the antenna 5ft above the roof, height above the sea is the determining height provided the roof doesn't extend more than 30 feet from the base of the antenna.

But even if the "geometry" looks like low-angle signals will miss the roof, don't set the antenna too low or you may suffer some detuning effects.

And don't forget we've only considered one direction!

Just wish I'd got that sort of location .... any chance of a swap, Bob :)

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "nasa820" <nasa820@...> wrote:
>
> What about installation above a metal roof building? Would it be
> considered perfect ground? Would I be measuring the height above
the
> "ground" or above the roof? What about the effect 'near' a metal
roof
> building?
>
> I am looking at over 180 degrees of salt water extending out from
> 25,000 ft to more than 75,000 feet. I'm assuming that is perfectly
> level! I'm on a 'high bank' with the ground level about 80 feet
above
> the water.
>

> My QTH offers opportunities and challenges. The metal roof
> potentially offers a good ground plane for a vertical, and the salt
> water an ideal surface for a low takeoff angle. But, despite a lot
of
> experimenting, I've yet to really avail myself of the potential
> benefits and get the "big kick" I think is hiding in this QTH.
>
> With the hex-beam, my ideas are in the direction of a relatively low
> mount (say 5-10 feet) above the ground, but that would be 80+ feet
> above the sea. The antenna would be about 100 feet in-shore of the
> water line, so the question is what would have the greater
influence,
> the ground immediately below the antenna or the sea water in front?
>
> A lot of questions! Thanks in advance to the group.
>
> My QTH here, bottom half of the page:
http://www.rbogash.com/ham.html
>
> Bob Bogash
> W7DDD
>

3415. 4 element hybrid 50 MHz Hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-01 10:01:41 UTC
From: Giancarlo Moda
Topic: 3415 Message: 3415

Hi all,

it s shame but I still have to assemble my 5B HF
Hex-beam... I have just redone the roof of my house
and I have no antennas...so maybe I will be forced to
assemble the X-beam.

I am also interested on 50MHz and I have an idea that
maybe dodgy or maybe it may works.....

I was thinking about a 4 element hybrid Hex beam, with
two center classic Hex elements and two additional
linear element maybe folded at the end.

One of the X element will be the radiator, the other
one the first director and the other two will be the
reflector and the second director.

This idea is also due to the fact I have not enough
space over my roof and cannot invade the neighbours.

In this group there are clever members than can
simulate such solution and see if worthed or not.

If it is not clear what I mean I can sketch a drawing.

Thanks and best 73

Gian
I7SWX

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3416. MORE MegaHex

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-02 23:30:54 UTC
From: Clay K7HC
Topic: 3416 Message: 3416

As I am building my 30/40 hexbeam, I am also learning a great deal about trimming and matching, as well as a lot of construction details. I'm making as website as I go along that some may be interested in. Also, I have to tell hat Steve Hunt, G3TXQ, has been great help in my project. His calculations and predictions have been right on the button!

The MegaHex website is found at:
http://www.linehand.com/k7hc-negahex.htm
Clay - K7HC

3417. Re: MORE MegaHex

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-03 08:29:27 UTC
From: steveeh131047
Topic: 3416 Message: 3417

Clay's got a real interesting project here.

Perhaps I should explain one aspect of the dimensions on Clay's WebSite before anyone "blindly" copies them. We deliberately cut the Driver shorter than normal (430") so that it will present a large capacitive reactance which can then be matched with a parallel inductor. This technique (the classic "hairpin" or "beta match") produces a very low SWR at the design frequency - much better than the 2:1 or 3:1 you get on a conventional design at the frequency of max F/B. But YOU CANNOT USE THIS APROACH ON A SINGLE-FEED MULTI-BAND HexBeam.

Clay is planning to run separate feeds to his 40m and 30m elements, so has the freedom to do some "monoband matching".

73
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Clay K7HC" <k7hc@...> wrote:
>
> As I am building my 30/40 hexbeam, I am also learning a great deal
> about trimming and matching, as well as a lot of construction
> details. I'm making as website as I go along that some may be
> interested in. Also, I have to tell hat Steve Hunt, G3TXQ, has been
> great help in my project. His calculations and predictions have been
> right on the button!
>
> The MegaHex website is found at:
> http://www.linehand.com/k7hc-negahex.htm
> Clay - K7HC
>

3418. New Antenna from Array Solutions OBW10-5

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-07 09:09:36 UTC
From: ownsyar
Topic: 3418 Message: 3418

Hey look!

If you haven't seen it yet go to
http://www.arraysolutions.com/Products/optibeammain.htm
and look at the new OBW10-5 Optibeam. This is a 30 lb. 10 element 5
band mixture of Moxon rectangles and other more Yagi-ish type
elements. The problem with a Moxon has been that one cannot "nest"
elements to make a multi-band unit as you can with the Hexbeam. This
new antenna uses full length elements and has a three dimensional
structure like the Hexbeam. As a Moxon is a member of the X-beam, Hex-
beam and other close spaced, end coupled family of antennas the specs
are similar and plots for SWR, gain, f/b, and patterns are given.
I have no connection with Optibeam or Array Solutions but I assume
other of the group are interested in all small sized
beam antennas. I would sure like to hear about how it performs.
73 Allen KA5N

3419. Re: New Antenna from Array Solutions OBW10-5

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-07 10:57:57 UTC
From: Steve
Topic: 3418 Message: 3419

Allan,

Thanks for drawing our attention to this. Like you say, folk have had trouble nesting the Moxon Rectangle. It's interesting that this design, and the Optibeam OB8-4M, fly in the face of Cebik's advice not to try to nest Moxons for "adjacent" bands. I don't know whether the problems have been maintaining the impedance match, or maintaining the antenna patterns.

Just one point - I don't think this is a three-dimensional array. If you look carefully at the photo you'll see that what looks like a sloping wire element is actually part of the support structure - all of the elements are actually in a single horizontal plane. I wonder if anyone has ever tried nesting Moxons with vertical separation as we have on the HexBeam?

There seems to be enough info in the .pdf file to produce an EZNEC model of the array - I'd be interested to see how it performs across the full bandwidth rather than just at one spot freq!

It's an interesting design - but significantly bigger than an equivalent Hex, and for my money not as elegant looking :)

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "ownsyar" <ownsyar@...> wrote:
>
> Hey look!
>
> If you haven't seen it yet go to
> http://www.arraysolutions.com/Products/optibeammain.htm
> and look at the new OBW10-5 Optibeam. This is a 30 lb. 10 element
5
> band mixture of Moxon rectangles and other more Yagi-ish type
> elements. The problem with a Moxon has been that one cannot "nest"
> elements to make a multi-band unit as you can with the Hexbeam.
This
> new antenna uses full length elements and has a three dimensional
> structure like the Hexbeam. As a Moxon is a member of the X-beam,
Hex-
> beam and other close spaced, end coupled family of antennas the
specs
> are similar and plots for SWR, gain, f/b, and patterns are given.
> I have no connection with Optibeam or Array Solutions but I assume
> other of the group are interested in all small sized

> beam antennas. I would sure like to hear about how it performs.
> 73 Allen KA5N
>

3420. Re: New Antenna from Array Solutions OBW10-5

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-07 14:47:52 UTC
From: ownsyar
Topic: 3418 Message: 3420

Hi Steve,
The three dimensional part of the antenna is mostly support
wire/cords for the elements. Since Moxon rectangle antennas
are used, then it has to have about 25-26 feet wingspan and have
greater turning radius.
As a matter of curiosity I looked at the web site of the MaxiMoxon
(a series of single band Moxons introduced about a year ago) and
found that it no longer existed. Their antennas looked well built
and not too expensive. Speaking of cost the OBW10-5 sells for
$1095.00 in the USA (there is a note of a 16% tax in Europe).
Time will tell.
73 Allen KA5N

-- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
>
> Allan,
>
> Thanks for drawing our attention to this. Like you say, folk have
had
> trouble nesting the Moxon Rectangle. It's interesting that this
> design, and the Optibeam OB8-4M, fly in the face of Cebik's advice
> not to try to nest Moxons for "adjacent" bands. I don't know
whether
> the problems have been maintaining the impedance match, or
> maintaining the antenna patterns.
>
> Just one point - I don't think this is a three-dimensional array.
If
> you look carefully at the photo you'll see that what looks like a
> sloping wire element is actually part of the support structure -
all
> of the elements are actually in a single horizontal plane. I
wonder
> if anyone has ever tried nesting Moxons with vertical separation
as
> we have on the HexBeam?
>
> There seems to be enough info in the .pdf file to produce an EZNEC
> model of the array - I'd be interested to see how it performs
across
> the full bandwidth rather than just at one spot freq!
>
> It's an interesting design - but significantly bigger than an
> equivalent Hex, and for my money not as elegant looking :)
>

> 73,
> Steve G3TXQ
>
>
> --- In hex-beam@yahoogroups.com, "ownsyar" <ownsyar@> wrote:
> >
> > Hey look!
> >
> > If you haven't seen it yet go to
> > http://www.arraysolutions.com/Products/optibeammain.htm
> > and look at the new OBW10-5 Optibeam. This is a 30 lb. 10
element
> 5
> > band mixture of Moxon rectangles and other more Yagi-ish type
> > elements. The problem with a Moxon has been that one
cannot "nest"
> > elements to make a multi-band unit as you can with the Hexbeam.
> This
> > new antenna uses full length elements and has a three
dimensional
> > structure like the Hexbeam. As a Moxon is a member of the X-
beam,
> Hex-
> > beam and other close spaced, end coupled family of antennas the
> specs
> > are similar and plots for SWR, gain, f/b, and patterns are given.
> > I have no connection with Optibeam or Array Solutions but I
assume
> > other of the group are interested in all small sized
> > beam antennas. I would sure like to hear about how it performs.
> > 73 Allen KA5N
> >
>

3421. Re: New Antenna from Array Solutions OBW10-5

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-07 14:59:49 UTC
From: Clay K7HC
Topic: 3418 Message: 3421

Unless my math fails me, the OB8-4M has a turning RADIUS of just
over 28'. That's a larger arc than my MegaHex (30/40 meter) which
is UNDER 20' turning radius.
73 - Clay - K7HC

--- In hex-beam@yahoogroups.com, "ownsyar" <ownsyar@...> wrote:
>
> Hi Steve,
> The three dimensional part of the antenna is mostly support
> wire/cords for the elements. Since Moxon rectangle antennas
> are used, then it has to have about 25-26 feet wingspan and have
> greater turning radius.
> As a matter of curiosity I looked at the web site of the MaxiMoxon
> (a series of single band Moxons introduced about a year ago) and
> found that it no longer existed. Their antennas looked well built
> and not too expensive. Speaking of cost the OBW10-5 sells for
> $1095.00 in the USA (there is a note of a 16% tax in Europe).
> Time will tell.
> 73 Allen KA5N
>
> -- In hex-beam@yahoogroups.com, "Steve" <steve@> wrote:
> >
> > Allan,
> >
> > Thanks for drawing our attention to this. Like you say, folk
have
> had
> > trouble nesting the Moxon Rectangle. It's interesting that this
> > design, and the Optibeam OB8-4M, fly in the face of Cebik's
advice
> > not to try to nest Moxons for "adjacent" bands. I don't know
> whether
> > the problems have been maintaining the impedance match, or
> > maintaining the antenna patterns.
> >
> > Just one point - I don't think this is a three-dimensional
array.
> If
> > you look carefully at the photo you'll see that what looks like
a
> > sloping wire element is actually part of the support structure -
> all
> > of the elements are actually in a single horizontal plane. I
> wonder
> > if anyone has ever tried nesting Moxons with vertical separation

> as
> > we have on the HexBeam?
> >
> > There seems to be enough info in the .pdf file to produce an
EZNEC
> > model of the array - I'd be interested to see how it performs
> across
> > the full bandwidth rather than just at one spot freq!
> >
> > It's an interesting design - but significantly bigger than an
> > equivalent Hex, and for my money not as elegant looking :)
> >
> > 73,
> > Steve G3TXQ
> >
> >
> > --- In hex-beam@yahoogroups.com, "ownsyar" <ownsyar@> wrote:
> > >
> > > Hey look!
> > >
> > > If you haven't seen it yet go to
> > > http://www.arraysolutions.com/Products/optibeammain.htm
> > > and look at the new OBW10-5 Optibeam. This is a 30 lb. 10
> element
> > 5
> > > band mixture of Moxon rectangles and other more Yagi-ish type
> > > elements. The problem with a Moxon has been that one
> cannot "nest"
> > > elements to make a multi-band unit as you can with the
Hexbeam.
> > This
> > > new antenna uses full length elements and has a three
> dimensional
> > > structure like the Hexbeam. As a Moxon is a member of the X-
> beam,
> > Hex-
> > > beam and other close spaced, end coupled family of antennas
the
> > specs
> > > are similar and plots for SWR, gain, f/b, and patterns are
given.
> > > I have no connection with Optibeam or Array Solutions but I
> assume
> > > other of the group are interested in all small sized
> > > beam antennas. I would sure like to hear about how it
performs.
> > > 73 Allen KA5N
> > >
> >
>

3422. Re: New Antenna from Array Solutions OBW10-5

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-07 17:31:35 UTC
From: Clay K7HC
Topic: 3418 Message: 3422

Well, my math failed me!! The turning radius of the OBW10-5 will be about 14.3 feet - sorry!

--- In hex-beam@yahoogroups.com, "Clay K7HC" <k7hc@...> wrote:
>
> Unless my math fails me, the OB8-4M has a turning RADIUS of just
> over 28'. That's a larger arc than my MegaHex (30/40 meter) which
> is UNDER 20' turning radius.
> 73 - Clay - K7HC
>

3423. 6 meter beam under a Hex Beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-07 21:04:56 UTC
From: Jim Chaggaris
Topic: 3423 Message: 3423

Greetings all,

I want to install a 3 element 6 meter beam about 6 feet under a Hexbeam. Anyone have any experience with this installation? Would there be any degradation in performance with either beam?

Thanks in advance.

73's

Jim N9WW

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 110
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

3424. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-08 02:32:32 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 3424

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /moxhexcomparison.doc
Uploaded by : k4kio <k4kio@...>
Description : Graphic Comparison of Moxon and Hexbeam

You can access this file at the URL:
http://groups.yahoo.com/group/hex-beam/files/moxhexcomparison.doc

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

k4kio <k4kio@...>

3425. Length of Spreader

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-08 04:43:52 UTC
From: slolawfirm
Topic: 3425 Message: 3425

Hi Folks,

My hex beam is at the assembly point... on question though, based on an Excel spreadsheet posting, a calculation of the length of the spreaders is provided.. However, no info is given as whether this is linear (unflexed) or bowed (flexed) nor an info on where the measurements are being attained from. I still would like to try integrating a shortened 40m element, but need some guidance as to whether the calculated 12' is linear or after the spreader is bowed.

An info would be helpful (I am assuming that the arc isn't very important so long as the correct element lengths are maintained.)

Regards,

Phil KM6CZ

3426. Re: Length of Spreader

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-08 12:28:59 UTC
From: Steve
Topic: 3425 Message: 3426

Phil,

Here's some typical 40m dimensions for 16 guauge wire which might help you:

Reflector 1/2 length = 446"
Reflector end insulator = 8.6"
Driver 1/2 length = 437"
Driver end insulator = 13.4"

Distance from Centre post to Driver-spreader support point = 225"
Distance from Centre post to Reflector-spreader support point = 227"
Distance from centre post to end insulators = 228"

So the "worst case" is that you need at least 228" between the terminals on your Centre Post and the tip of the spreaders to fit this beam in. These dimensions are "STRAIGHT LINE" measurements, not distances measured following the bow of the spreaders. How much longer the spreaders will need to be depends on how much they bow, and on how they are attached at the base plate [in a design like Leo's (K4KIO) you gain a bit because the spreaders start at the outer edge of the baseplate]

Hope this helps. Good luck!

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "slolawfirm" <philipas@...> wrote:
>
> Hi Folks,
>
> My hex beam is at the assembly point... on question though, based
on
> an Excel spreadsheet posting, a calculation of the length of the
> spreaders is provided.. However, no info is given as whether this
is
> linear (unflexed) or bowed (flexed) nor an info on where the
> measurements are being attained from. I still would like to try
> integrating a shortened 40m element, but need some guidance as to
> whether the calculated 12' is linear or after the spreader is bowed.
>
> An info would be helpful (I am assuming that the arc isn't very
> important so long as the correct element lengths are maintained.)
>
> Regards,
>

> Phil KM6CZ
>

3427. New user

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-06 18:27:43 UTC
From: Amateur Radio Lighthouse Society
Topic: 3427 Message: 3427

Just bought the 20M light-weight version. Took me only about two hours to assemble the whole thing (including reading the directions) and to mount it on a 10-ft pole stuck in a trash can sitting on the patio.

What is unique in my situation is that I did the whole thing BY MYSELF WHILE IN A WHEELCHAIR! I was amazed that it was so easy. With the post in supported in a trash can, I was able to rotate each of the elements to where I was sitting in the wheelchair and make all the connections. Everything went together exactly as described, no parts missing, nothing that didnt quite match up, no holes misaligned, no problems whatsoever.

Even tho it is now only 10 ft off the ground (some friends are coming tomorrow to hoist it to a 30-ft mast), I have been getting reports 2-3 S units over my G5RV. Now I kinda wish I had gotten the 5-band version!
Jim, K2JXW, ARLHS #001, http://arlhs.com

3428. Re: [hex-beam] New user

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-08 20:02:00 UTC
From: Mark Robinson
Topic: 3427 Message: 3428

excellent work Jim,

The 5 bander would be nice - that's for sure - might even get me back on the air.

Congrats on a job well done

Mark N1UK G3ZZM

----- Original Message -----
From: "Amateur Radio Lighthouse Society" <weidner@...>
To: <hex-beam@yahoogroups.com>
Sent: Friday, 06 October, 2006 2:27 PM
Subject: [hex-beam] New user

> Just bought the 20M light-weight version. Took me only about two hours
> to assemble the whole thing (including reading the directions) and to
> mount it on a 10-ft pole stuck in a trash can sitting on the patio.
>
> What is unique in my situation is that I did the whole thing BY
> MYSELF WHILE IN A WHEELCHAIR! I was amazed that it was so easy. With
> the post in supported in a trash can, I was able to rotate each of the
> elements to where I was sitting in the wheelchair and make all the
> connections. Everything went together exactly as described, no parts
> missing, nothing that didnt quite match up, no holes misaligned, no
> problems whatsoever.
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> Even tho it is now only 10 ft off the ground (some friends are coming
> tomorrow to hoist it to a 30-ft mast), I have been getting reports 2-3
> S units over my G5RV. Now I kinda wish I had gotten the 5-band version!
> Jim, K2JXW, ARLHS #001, http://arlhs.com
>
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> Yahoo! Groups Links
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3429. Re: Length of Spreader

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-09 16:00:55 UTC
From: slolawfirm
Topic: 3425 Message: 3429

Thanks Steve,

The arrangement I'm using incorporates shortened 40m elements (i.e., RG-58U cable.) The basic structure has been finished and the Maxgain fiberglass rods are holding the weight of the cable fine.

The only question that comes to mind is how much vertical spatial difference is required between the elements of different bands.

At this juncture, I could easily leave all the elements in approximately the same horizontal plane, but suspect that this would not work due to element interactions. (although this is essentially becomes a sort of yagi.

Another alternative, is to use the support cables (kevlar/dacron mix) for attaching the problematic elements to the antenna structure.

There was another antenna called the Cobbwebb (folded dipoles) which did just this and it worked fine; although the antenna itself did not perform well at all.

The engineering challenges is what makes this antenna fun to construct.

Regards,

Phil KM6CZ

--- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
>
> Phil,
>
> Here's some typical 40m dimensions for 16 guauge wire which might
> help you:
>
> Reflector 1/2 length = 446"
> Reflector end insulator = 8.6"
> Driver 1/2 length = 437"
> Driver end insulator = 13.4"
>
> Distance from Centre post to Driver-spreader support point = 225"
> Distance from Centre post to Reflector-spreader support point =
227"
> Distance from centre post to end insulators = 228"
>
> So the "worst case" is that you need at least 228" between the
> terminals on your Centre Post and the tip of the spreaders to fit

> this beam in. These dimensions are "STRAIGHT LINE" measurements,
not
> distances measured following the bow of the spreaders. How much
> longer the spreaders will need to be depends on how much they bow,
> and on how they are attached at the base plate [in a design like
> Leo's (K4KIO) you gain a bit because the spreaders start at the
outer
> edge of the baseplate]
>
> Hope this helps. Good luck!
>
> 73,
> Steve G3TXQ
>
>
> --- In hex-beam@yahoogroups.com, "slolawfirm" <philipas@> wrote:
> >
> > Hi Folks,
> >
> > My hex beam is at the assembly point... on question though,
based
> on
> > an Excel spreadsheet posting, a calculation of the length of the
> > spreaders is provided.. However, no info is given as whether
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> > linear (unflexed) or bowed (flexed) nor an info on where the
> > measurements are being attained from. I still would like to try
> > integrating a shortened 40m element, but need some guidance as
to
> > whether the calculated 12' is linear or after the spreader is
bowed.
> >
> > An info would be helpful (I am assuming that the arc isn't very
> > important so long as the correct element lengths are maintained.)
> >
> > Regards,
> >
> > Phil KM6CZ
> >
>

3430. Re: Length of Spreader

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-09 16:59:30 UTC
From: Steve
Topic: 3425 Message: 3430

Phil,

I'll be interested to hear how you get on with the coax elements - it's always seemed to me like one of those "too good to be true" ideas. I'm sure the resonant lengths will decrease by the velocity factor, but I'm particularly interested to know if there are significant losses in the coax elements.

Be sure to get those coax Reflectors resonant at the required frequency by measurement rather than prediction - I doubt you'll be able to rely on the velocity factor being accurate.

With regard to spacing, I don't think there are any hard and fast rules. Most folk seem to end up with vertical spacings dictated by the "bow" in their spreaders. As you say, it seems likely that interactions will be greater if all bands are in one plane, so I think I would play safe and stick to the "typical" spacings. Leo and Holger's Websites quote very similar numbers so I would go with one of these (scaled for 40m if necessary)

I sometimes wonder if part of the problem nesting multiband Moxon Rectangles is because folk don't go for vertical spacing!

I know the CobWeb antenna well. I've built a couple of HomeBrew ones. It seemed to me to perform exactly as you would expect a "bent" dipole to - i.e. no Magic :)

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "slolawfirm" <philipas@...> wrote:
>
> Thanks Steve,
>
> The arrangement I'm using incorporates shortened 40m elements
(i.e.,
> RG-58U cable.) The basic structure has been finished and the
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> fiberglass rods are holding the weight of the cable fine.
>
> The only question that comes to mind is how much vertical spatial
> difference is required between the elements of different bands.
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> The engineering challenges is what makes this antenna fun to
> construct.
>
> Regards,
>
> Phil KM6CZ
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> --- In hex-beam@yahoogroups.com, "Steve" <steve@> wrote:
> >
> > Phil,
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> > Here's some typical 40m dimensions for 16 guauge wire which might
> > help you:
> >
> > Reflector 1/2 length = 446"
> > Reflector end insulator = 8.6"
> > Driver 1/2 length = 437"
> > Driver end insulator = 13.4"
> >
> > Distance from Centre post to Driver-spreader support point = 225"
> > Distance from Centre post to Reflector-spreader support point =
> 227"
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> > terminals on your Centre Post and the tip of the spreaders to fit
> > this beam in. These dimensions are "STRAIGHT LINE" measurements,
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> > longer the spreaders will need to be depends on how much they
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> > and on how they are attached at the base plate [in a design like
> > Leo's (K4KIO) you gain a bit because the spreaders start at the
> outer
> > edge of the baseplate]
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> > Hope this helps. Good luck!
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> > Steve G3TXQ
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> bowed.
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> > > important so long as the correct element lengths are
maintained.)
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> >
>

3431. Re: Length of Spreader

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-10 01:49:19 UTC
From: Colin
Topic: 3425 Message: 3431

Hi All
Great to see new ideas being explored.

I would think that logically the physical spacing only needs to be sufficient to reduce interactions.

Having said that.. I wonder if, in the case of a single feed multiband hexbeam, the actual required spacing is more to do with the feeding arrangement lengths than with prevention of element to element interaction?

With seperate feedlines for each band you may have more scope for playing with the vertical spacing.

While on the subject of using seperate feeds for each band..
would the feedline be best left open circuit (at presumably a mast mounted switchbox) on unused bands or perhaps grounded?
and indeed would the open or shorted unused feeds then affect the performance?
It seems likely they could act as stubs to lengthen/shorten the unused driven elements with some potentially bad results.

Seems there`s always another question to ask hi

73
Colin m0xbm

--- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
>
> Phil,
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> I'll be interested to hear how you get on with the coax elements -
> it's always seemed to me like one of those "too good to be true"
> ideas. I'm sure the resonant lengths will decrease by the velocity
> factor, but I'm particularly interested to know if there are
> significant losses in the coax elements.
>
> Be sure to get those coax Reflectors resonant at the required
> frequency by measurement rather than prediction - I doubt you'll be
> able to rely on the velocity factor being accurate.
>
> With regard to spacing, I don't think there are any hard and fast
> rules. Most folk seem to end up with vertical spacings dictated by
> the "bow" in their spreaders. As you say, it seems likely that
> interactions will be greater if all bands are in one plane, so I
> think I would play safe and stick to the "typical" spacings. Leo
and

> Holger's Websites quote very similar numbers so I would go with one
> of these (scaled for 40m if necessary)
>
> I sometimes wonder if part of the problem nesting multiband Moxon
> Rectangles is because folk don't go for vertical spacing!
>
> I know the CobWeb antenna well. I've built a couple of HomeBrew
ones.
> It seemed to me to perform exactly as you would expect a "bent"
> dipole to - i.e. no Magic :)
>
> 73,
> Steve G3TXQ

3432. Re: Length of Spreader

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-10 07:59:19 UTC
From: Steve
Topic: 3425 Message: 3432

Colin,

You raise some interesting points. Here are my thoughts ... not yet backed up by any modelling!

>
> Having said that.. I wonder if, in the case of a single feed
> multiband hexbeam, the actual required spacing is more to do with
the
> feeding arrangement lengths than with prevention of element to
> element interaction?

I doubt it. In my experience the impedance transformations introduced by the interconnecting feedline have represented a PROBLEM to be overcome rather than something that can easily be exploited. Of course one arrangement (seen on a website) which provides the best of both worlds is to use the conventional support structure but slope all the Drivers back to one common pair of terminals at the Centre Post, neatly doing away with the interconnect problem.

>
> While on the subject of using seperate feeds for each band..
> would the feedline be best left open circuit (at presumably a mast
> mounted switchbox) on unused bands or perhaps grounded?
> and indeed would the open or shorted unused feeds then affect the
> performance?
> It seems likely they could act as stubs to lengthen/shorten the
> unused driven elements with some potentially bad results.
>

Yes, you can envisage certain feeder lengths that would bring an "unused" Driver to resonance and cause some funny effects. Without knowing the feeder length you can't say whether O/C or S/C would be better ..... so why not play safe and switch in a terminating 50 Ohm resistor at the switchbox - this would always result in 50 Ohms across the unused Driver whatever the feeder length and prevent it becoming resonant out of band :)

>
> Seems there`s always another question to ask hi
>
>

You bet!!!

73,
Steve G3TXQ

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3433. Re: Length of Spreader

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-11 03:25:10 UTC
From: slolawfirm
Topic: 3425 Message: 3433

Ok,

I'll post some results when I've completed the antenna.. I used the same batch of coax to build the hybrid hex and it worked fine (although the bamboo support did not last long.) Even with the shortened 40m elements, the antenna is approx 25' in diameter.

I plan on tying all of the driven elements together at a common feedpoint (AKA cobbwebb antenna.) The common feedpoint will attach to a 1:1 current balun. If this doesn't work, I'll switch to no.6 gauge copper wire arranged more like the traditional hex feedlines (I want to keep the balun to ensure optimum F/B and gain.) One thought I had was to replicate Moseley's balanced matching feed used on their 5 band beam antennas (gradually narrowing parallel lines.)

In any case, thanks for the interest and stay tuned!

Regards,

Phil
KM6CZ

--- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
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> Phil,
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> I'll be interested to hear how you get on with the coax elements -
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3434. Re: Length of Spreader

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-11 12:19:42 UTC
From: Colin
Topic: 3425 Message: 3434

Hi Steve
Thanks for your informative reply.
I guess there are hurdles to overcome no matter which way you go.

After looking at Doug`s (VE3EFC) novel method of sloping the elements.
It occurred to me that if all the elements started at the top of the post, the wires would also act as supports for a horizontal spreader instead of a curved one..pretty much like a suspension bridge or the boom stay on a long yagi.

I did a quick model of a 20m monobander with just the post to knee wire portions sloping down with the outer wires flat as normal and the performance seemed to be largely unaffected.
A 5 bander with all the element outers "in plane" may well cause some headaches though.

I did notice the gain and f/b curves peak at about the same freq but that could be the result of a modelling error on my part.. i`m no expert.

I`ve plenty of fibreglass so i may give the design a go just to see how well it fares against the standard configuration.

--- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
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> course one arrangement (seen on a website) which provides the best
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> > and indeed would the open or shorted unused feeds then affect the
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> > It seems likely they could act as stubs to lengthen/shorten the
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> Yes, you can envisage certain feeder lengths that would bring
> an "unused" Driver to resonance and cause some funny effects.
Without
> knowing the feeder length you can't say whether O/C or S/C would be
> better ..... so why not play safe and switch in a terminating 50
> Ohm resistor at the switchbox - this would always result in 50 Ohms
> across the unused Driver whatever the feeder length and prevent it
> becoming resonant out of band :)
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> > Seems there`s always another question to ask hi
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> You bet!!!
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> 73,
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>

3435. New File - dipole performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-11 12:51:04 UTC
From: Steve
Topic: 3435 Message: 3435

Hi Folks,

When I first got interested in the HexBeam, I wondered if there might be other element "shapes" that could form the basis of a compact beam. So I modelled about a dozen different Driver shapes, looking at their 20m Gain, resonant Impedance, and SWR bandwidth. The "Holy Grail" was a shape with a very small turning radius that had high performance parameters - I didn't find it, or I'd be off making my millions :)

I thought some members of the Group might be interested in the results, which are now in an MSWord document within the G3TXQ folder of the Files section. Hopefully the description of the different shapes will be self-explanatory. Some of the shapes have a vertical component - for example, the quad loop - so although the turning radius is quite small you have to rememebr that it also occupies vertical space.

I guess the clear message from these results is that you never get "something for nothing" - generally, the bigger the turning radius the higher the Gain, Impedance and SWR. There's quite a lot of scatter, but in the case of Impedance there's almost a linear relationship with turning radius.

As you'd expect, the performance of our favourite antenna (the Hex) is pretty much consistent with its size. Perhaps the most impressive is the 14.6' dipole loaded with eight 2'spokes at each end - of course the problems come when you try to turn this into a multiband beam!

73,
Steve

3436. Re: Length of Spreader

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-11 13:39:39 UTC
From: Steve
Topic: 3425 Message: 3436

Colin,

Well done - we learn a bit more with every posting!

I've just tried two quick separate configuration changes on my 4 band (20-17-15-10m) EZNEC model:

1) I sloped the 20m, 15m and 10m drivers to a common feedpoint at the 17m position. I kept the Reflectors in their normal horizontal positions.

2) I reduced the band spacing to 1/2" to simulate everything being in one horizontal plane! You could enviage this being built with "flat ribbon" cable going out from the centre-post and "peeling off" the various band elements at the appropriate point on the spreader.

In both cases the basic antenna performance (particularly F/B) was affected for the worse. Option 2 was particularly bad. I haven't had a chance to look in detail why this is happening, but a quick look at the EZNEC current distributions shows that the "unused" band elements are being excited significantly more than on the Classic model. Perhaps we shouldn't be surprised that bringing the "maximum current" sections of the Drivers so close together has this effect.

Feedpoint impedances change with the various options, but in neither case did they look to be particularly better than the SWRs on the Classic model. So my earlier thoughts that sloping the Drivers to a common feedpoint might simplify the matching looks to be wrong :(

73,
Steve

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@...> wrote:
>
> Hi Steve
> Thanks for your informative reply.
> I guess there are hurdles to overcome no matter which way you go.
>
> After looking at Doug`s (VE3EFC) novel method of sloping the
> elements.
> It occurred to me that if all the elements started at the top of
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> > > > 73,
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3437. New File - Improved HexBeam performance?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-11 14:42:11 UTC
From: Steve
Topic: 3437 Message: 3437

Hi Folks,

When I first joined the Group I posted an EZNEC model of a HexBeam with an alternative feed arrangement which seemed to promise improved performance. I realised recently that I had never posted the corresponding performance graph!

It can now be found in an MSWord file called "2 Driven performance graphs" in the G3TXQ folder of the Files section.

Take a look and you will see that the alternative feed arrangement promises significantly better and "flatter" performance across the band; only its Gain at the bottom end of the band is inferior to the Classic feed arrangement. And what is this alternative feed ? ..... Simply connecting the Right side of the Reflector to the Left side of the Driver and vice-versa - making it a Driven array rather than a Parasitic array.

Just a couple of cautionary words before you all go off and re-wire your HexBeams :)

1) I've not yet had a chance to try this "for real" - so far its just been a modelling exercise.

2) The feedpoint impedance tumbles when you feed both Driver and Reflector (a characteristic of most Driven arrays) - so the model includes a transmission line matching section. This is fine for a "monobander" but I've not yet had a chance to figure out how a "Multibander" might be matched.

I hope soon to build a 10m monobander to try out the idea - but if someone wants to have a go in the meantime, please do and let us all know the outcome.

73,
Steve G3TXQ

3438. Re: [hex-beam] New File - dipole performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-11 18:24:15 UTC
From: Eran Agmon
Topic: 3435 Message: 3438

That sounds very interesting Steve!
Could you please email me the MSWord document.
Much Mahalo & Warmest Aloha,
Eran WH6R

On 11 Oct 2006 at 12:51, Steve wrote:

>
> Hi Folks,
>
> When I first got interested in the HexBeam, I wondered if there might
> be other element "shapes" that could form the basis of a compact beam.
> So I modelled about a dozen different Driver shapes, looking at their
> 20m Gain, resonant Impedance, and SWR bandwidth. The "Holy Grail" was
> a shape with a very small turning radius that had high performance
> parameters - I didn't find it, or I'd be off making my millions :)
>
> I thought some members of the Group might be interested in the
> results, which are now in an MSWord document within the G3TXQ
> folder
> of the Files section. Hopefully the description of the different
> shapes will be self-explanatory. Some of the shapes have a vertical
> component - for example, the quad loop - so although the turning
> radius is quite small you have to rememebr that it also occupies
> vertical space.
>
> I guess the clear message from these results is that you never
> get "something for nothing" - generally, the bigger the turning
> radius the higher the Gain, Impedance and SWR. There's quite a lot of
> scatter, but in the case of Impedance there's almost a linear
> relationship with turning radius.
>
> As you'd expect, the performance of our favourite antenna (the Hex) is
> pretty much consistent with its size. Perhaps the most impressive is
> the 14.6' dipole loaded with eight 2'spokes at each end - of course
> the problems come when you try to turn this into a multiband beam!
>
> 73,
> Steve
>
>

3439. followup for Steve my msg regarding f/b

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-11 20:27:02 UTC
From: k4elv35242
Topic: 3439 Message: 3439

Steve, I forgot to mention the beam I was referring to was 20, 28, 15 and 10 meters. Sorry. Mike K4ELV

3440. Hex beam failure

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-12 00:01:43 UTC
From: wb2lsu
Topic: 3440 Message: 3440

Just finished construction of my K4KIO hex with the base plate made of cutting board(as instructed). It warped and bent in less than 24 hrs. Anyone experience the same? QTH is SE Florida) I am now going to aluminum

3441. Re: New File - dipole performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-13 01:18:59 UTC
From: w4wb
Topic: 3435 Message: 3441

Steve,

Have you read the paper on supergain? It is in the files section
under Publications.

http://f1.grp.yahoofs.com/v1/EOUuRaaRULVBb9Uu8Vv0TU4K7oqd5vHtvpr46URw
_s6VdZR8Q-wmePj66t20_7KfnSzOxFfT_a5b8EI3iBg-/Publications/Supergain%
20Antennas.pdf

73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
>
> Hi Folks,
>
> When I first got interested in the HexBeam, I wondered if there
might
> be other element "shapes" that could form the basis of a compact
> beam. So I modelled about a dozen different Driver shapes, looking
at
> their 20m Gain, resonant Impedance, and SWR bandwidth. The "Holy
> Grail" was a shape with a very small turning radius that had high
> performance parameters - I didn't find it, or I'd be off making my
> millions :)
>
> I thought some members of the Group might be interested in the
> results, which are now in an MSWord document within the G3TXQ
folder
> of the Files section. Hopefully the description of the different
> shapes will be self-explanatory. Some of the shapes have a
vertical
> component - for example, the quad loop - so although the turning
> radius is quite small you have to rememebr that it also occupies
> vertical space.
>
> I guess the clear message from these results is that you never
> get "something for nothing" - generally, the bigger the turning
> radius the higher the Gain, Impedance and SWR. There's quite a lot
of
> scatter, but in the case of Impedance there's almost a linear
> relationship with turning radius.
>
> As you'd expect, the performance of our favourite antenna (the
Hex)
> is pretty much consistent with its size. Perhaps the most

impressive
> is the 14.6' dipole loaded with eight 2'spokes at each end - of
> course the problems come when you try to turn this into a
multiband
> beam!
>
> 73,
> Steve
>

3442. Re: [hex-beam] Re: New Antenna from Array Solutions OBW10-5

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-07 20:45:09 UTC
From: Leo Shoemaker
Topic: 3418 Message: 3442

The discussion of the Optibeam prompted me to wonder how its performance compares with the Hexbeam and so I took Cebik's modeled data for the Mox and the Hex and put them on the same graph. You can see it in the attached Word document.

Clearly, the Mox mono band outperforms the Hex monoband based on these data but the physical configuration of the Hexbeam, certainly in a multiband arrangement, seems far superior in my view.

Comments are welcomed.

73,

Leo, K4KIO

Steve <steve@...> wrote: Allan,

Thanks for drawing our attention to this. Like you say, folk have had trouble nesting the Moxon Rectangle. It's interesting that this design, and the Optibeam OB8-4M, fly in the face of Cebik's advice not to try to nest Moxons for "adjacent" bands. I don't know whether the problems have been maintaining the impedance match, or maintaining the antenna patterns.

Just one point - I don't think this is a three-dimensional array. If you look carefully at the photo you'll see that what looks like a sloping wire element is actually part of the support structure - all of the elements are actually in a single horizontal plane. I wonder if anyone has ever tried nesting Moxons with vertical separation as we have on the HexBeam?

There seems to be enough info in the .pdf file to produce an EZNEC model of the array - I'd be interested to see how it performs across the full bandwidth rather than just at one spot freq!

It's an interesting design - but significantly bigger than an equivalent Hex, and for my money not as elegant looking :)

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "ownsyar" <ownsyar@...> wrote:
>
> Hey look!
>
> If you haven't seen it yet go to
> http://www.arraysolutions.com/Products/optibeammain.htm
> and look at the new OBW10-5 Optibeam. This is a 30 lb. 10 element
5

> band mixture of Moxon rectangles and other more Yagi-ish type
> elements. The problem with a Moxon has been that one cannot "nest"
> elements to make a multi-band unit as you can with the Hexbeam.
This
> new antenna uses full length elements and has a three dimensional
> structure like the Hexbeam. As a Moxon is a member of the X-beam,
Hex-
> beam and other close spaced, end coupled family of antennas the
specs
> are similar and plots for SWR, gain, f/b, and patterns are given.
> I have no connection with Optibeam or Array Solutions but I assume
> other of the group are interested in all small sized
> beam antennas. I would sure like to hear about how it performs.
> 73 Allen KA5N
>

[Non-text portions of this message have been removed]

3443. Re: [hex-beam] New Antenna from Array Solutions OBW10-5

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-07 16:37:42 UTC
From: Pieter & Petro du Toit
Topic: 3418 Message: 3443

No go at this ad it looks and is to big and to complicated to travel with it may have little more gain than a HEXBEAM but i belief not as easy as a Taffy factory hex beam to assemble and get up my one has fallen over a few times in the erecting and had no damage done and it has done some traveling all ready , nice to read about all of this but do believe Hex beam is No 1 , 73 de ZL1PDT
From: ownsyar
To: hex-beam@yahoogroups.com
Sent: Saturday, October 07, 2006 10:09 PM
Subject: [hex-beam] New Antenna from Array Solutions OBW10-5

Hey look!

If you haven't seen it yet go to
http://www.arraysolutions.com/Products/optibeammain.htm
and look at the new OBW10-5 Optibeam. This is a 30 lb. 10 element 5
band mixture of Moxon rectangles and other more Yagi-ish type
elements. The problem with a Moxon has been that one cannot "nest"
elements to make a multi-band unit as you can with the Hexbeam. This
new antenna uses full length elements and has a three dimensional
structure like the Hexbeam. As a Moxon is a member of the X-beam, Hex-
beam and other close spaced, end coupled family of antennas the specs
are similar and plots for SWR, gain, f/b, and patterns are given.
I have no connection with Optibeam or Array Solutions but I assume
other of the group are interested in all small sized
beam antennas. I would sure like to hear about how it performs.
73 Allen KA5N

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/464 - Release Date: 2006/10/05

[Non-text portions of this message have been removed]

3444. Re: followup for Steve my msg regarding f/b

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-13 07:48:54 UTC
From: Steve
Topic: 3439 Message: 3444

Mike,

I'm still confused :)

Do we have a 28 meter band ? I'm guessing you meant 20, 17, 15 and 10 meters, but I may be wrong.

73,
Steve

--- In hex-beam@yahoogroups.com, "k4elv35242" <k4elv35242@...> wrote:
>
> Steve, I forgot to mention the beam I was referring to was 20, 28, 15
> and 10 meters. Sorry. Mike K4ELV
>

3445. Re: [hex-beam] Re: followup for Steve my msg regarding f/b

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-13 08:29:15 UTC
From: richard
Topic: 3439 Message: 3445

28-30 is a standard band,

----- Original Message -----
From: Steve
To: hex-beam@yahoogroups.com
Sent: Friday, October 13, 2006 8:48 AM
Subject: [hex-beam] Re: followup for Steve my msg regarding f/b

Mike,

I'm still confused :)

Do we have a 28 meter band ? I'm guessing you meant 20, 17, 15 and 10
meters, but I may be wrong.

73,
Steve

--- In hex-beam@yahoogroups.com, "k4elv35242" <k4elv35242@...> wrote:
>
> Steve, I forgot to mention the beam I was referring to was 20, 28, 15
> and 10 meters. Sorry. Mike K4ELV
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.3/473 - Release Date: 12/10/2006

[Non-text portions of this message have been removed]

3446. Re: New File - dipole performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-13 09:41:17 UTC
From: Steve
Topic: 3435 Message: 3446

Barry,

Thanks for pointing me in the direction of this paper. I "skim read" it when I first joined the Group but, encouraged by your posting, I've just had a more-thorough read. It's very interesting stuff.

I guess this comment from the Conclusion section of the paper says it all:

"The dream of a small, high gain and highly directive beam remains Pie in the Sky"

I'm reminded of the years I spent early in my professional career searching for error control coding techniques that would meet Shannon's Limit. If you recall, Shannon's Theorem states that if a communications channel has a certain Signal/Noise ratio it must be possible to signal through it at zero error rate if you keep the bit rate below a certain threshold.

Unfortunately it's an "Existence Theorem". In other words, it says that a way of doing it must exist, but it doesn't tell you how to do it! Modern coding techniques get close to the Shannon Limit but no-one has yet achieved it.

Some of the SuperGain predictions seem to be in the same category - theoretically possible, but not achievable within our present state of knowledge.

Perhaps when we Hams have room-temperature superconductors with which to construct our beams it'll be different ..... :)

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@...> wrote:
>
> Steve,
>
> Have you read the paper on supergain? It is in the files section
> under Publications.
>
>
http://f1.grp.yahoofs.com/v1/EOUuRaaRULVBb9Uu8Vv0TU4K7oqd5vHtvpr46URw
> _s6VdZR8Q-wmePj66t20_7KfnSzOxFfT_a5b8EI3iBg-/Publications/Supergain%
> 20Antennas.pdf
>
> 73,

> Barry W4WB
>
> --- In hex-beam@yahoogroups.com, "Steve" <steve@> wrote:
> >
> > Hi Folks,
> >
> > When I first got interested in the HexBeam, I wondered if there
> might
> > be other element "shapes" that could form the basis of a compact
> > beam. So I modelled about a dozen different Driver shapes,
looking
> at
> > their 20m Gain, resonant Impedance, and SWR bandwidth. The "Holy
> > Grail" was a shape with a very small turning radius that had high
> > performance parameters - I didn't find it, or I'd be off making
my
> > millions :)
> >
> > I thought some members of the Group might be interested in the
> > results, which are now in an MSWord document within the G3TXQ
> folder
> > of the Files section. Hopefully the description of the different
> > shapes will be self-explanatory. Some of the shapes have a
> vertical
> > component - for example, the quad loop - so although the turning
> > radius is quite small you have to rememebr that it also occupies
> > vertical space.
> >
> > I guess the clear message from these results is that you never
> > get "something for nothing" - generally, the bigger the turning
> > radius the higher the Gain, Impedance and SWR. There's quite a
lot
> of
> > scatter, but in the case of Impedance there's almost a linear
> > relationship with turning radius.
> >
> > As you'd expect, the performance of our favourite antenna (the
> Hex)
> > is pretty much consistent with its size. Perhaps the most
> impressive
> > is the 14.6' dipole loaded with eight 2'spokes at each end - of
> > course the problems come when you try to turn this into a
> multiband
> > beam!
> >
> > 73,
> > Steve
> >
>

3447. Re: followup for Steve my msg regarding f/b

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-13 09:43:42 UTC
From: Steve
Topic: 3439 Message: 3447

Richard,

Yes, but I presume that is what Mike means by 10 meters.

Steve

--- In hex-beam@yahoogroups.com, "richard" <m0clz1@...> wrote:
>
> 28-30 is a standard band,
>
> ----- Original Message -----
> From: Steve
> To: hex-beam@yahoogroups.com
> Sent: Friday, October 13, 2006 8:48 AM
> Subject: [hex-beam] Re: followup for Steve my msg regarding f/b
>
>
> Mike,
>
> I'm still confused :)
>
> Do we have a 28 meter band ? I'm guessing you meant 20, 17, 15
and 10
> meters, but I may be wrong.
>
> 73,
> Steve
>
> --- In hex-beam@yahoogroups.com, "k4elv35242" <k4elv35242@> wrote:
> >
> > Steve, I forgot to mention the beam I was referring to was 20,
28, 15
> > and 10 meters. Sorry. Mike K4ELV
> >
>
>
>
>
>
>
> ----------

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.

> Version: 7.1.408 / Virus Database: 268.13.3/473 - Release Date: 12/10/2006
>
>
> [Non-text portions of this message have been removed]
>

3448. Re: Hex beam failure

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-13 19:33:55 UTC
From: k4kio
Topic: 3440 Message: 3448

Very sorry to hear about the baseplate problem. I have added some cautionary language to my website to warn of such possibilities and suggest use of metal if available.

I'm curious; what did you use for spreaders?

73,

Leo, K4KIO

--- In hex-beam@yahoogroups.com, "wb2lsu" <wb2lsu@...> wrote:
>
> Just finished construction of my K4KIO hex with the base plate made of
> cutting board(as instructed). It warped and bent in less than 24 hrs.
> Anyone experience the same? QTH is SE Florida) I am now going to
> aluminum
>

3449. Base Plate Material

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-13 20:09:57 UTC
From: w2bxr
Topic: 3449 Message: 3449

I also experienced problems with a "cutting board" material used for making a base plate. It was almost 1/2" thick and some type of white plastic. The beam was still about ground level in the tuning/building stage for about 4 days. I noticed the warping soon after I assembled it and several cracks in 4-5 days. Obviously I am going to remake the base out of some UV resistant material or aluminum.

Did make some nice contacts on 20 and 17, which is all that it was buit for, even though the elements were about 4 ft off the ground. Good learning experience for the final build.

Gene, W2BXR

3450. Re: [hex-beam] Re: followup for Steve my msg regarding f/b

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-13 20:14:19 UTC
From: John Lepire
Topic: 3439 Message: 3450

28 to 30 megahertz , 10 meters is called that band of freq.'s ;-)
----- Original Message -----
From: richard
To: hex-beam@yahoogroups.com
Sent: Friday, October 13, 2006 3:29 AM
Subject: Re: [hex-beam] Re: followup for Steve my msg regarding f/b

28-30 is a standard band,

----- Original Message -----
From: Steve
To: hex-beam@yahoogroups.com
Sent: Friday, October 13, 2006 8:48 AM
Subject: [hex-beam] Re: followup for Steve my msg regarding f/b

Mike,

I'm still confused :)

Do we have a 28 meter band ? I'm guessing you meant 20, 17, 15 and 10
meters, but I may be wrong.

73,
Steve

--- In hex-beam@yahoogroups.com, "k4elv35242" <k4elv35242@...> wrote:
>
Recent Activity
a.. 8New Members
b.. 3New Photos
c.. 3New Files
Visit Your Group
SPONSORED LINKS
a.. Ham radio antenna
b.. Ham radio
c.. Ham radio store
Sitebuilder
Build a web site

quickly & easily

with Sitebuilder.

Y! GeoCities
Free Blogging

Share your views

with the world.

Yahoo! Groups
Start a group

in 3 easy steps.

Connect with others.
.

[Non-text portions of this message have been removed]

3451. Re: [hex-beam] Re: Hex beam failure

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-13 20:15:34 UTC
From: John Lepire
Topic: 3440 Message: 3451

>I have added some
>cautionary language to my website to warn of such possibilities

i do also @$&#(@#@((Q* hee hee ;-p
----- Original Message -----
From: k4kio
To: hex-beam@yahoogroups.com
Sent: Friday, October 13, 2006 2:33 PM
Subject: [hex-beam] Re: Hex beam failure

Very sorry to hear about the baseplate problem. and
suggest use of metal if available.

I'm curious; what did you use for spreaders?

73,

Leo, K4KIO

--- In hex-beam@yahoogroups.com, "wb2lsu" <wb2lsu@...> wrote:
>
> Just finished construction of my K4KIO hex with the base plate made of
> cutting board(as instructed). It warped and bent in less than 24 hrs.
> Anyone experience the same? QTH is SE Florida) I am now going to
> aluminum
>

[Non-text portions of this message have been removed]

3452. Fw: [hex-beam] Re: Hex beam failure

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-13 20:32:06 UTC
From: Pieter & Petro du Toit
Topic: 3452 Message: 3452

Well the original hex beam does use aluminum for a base plate and it has no problem

To: hex-beam@yahoogroups.com
Sent: Saturday, October 14, 2006 8:33 AM
Subject: [hex-beam] Re: Hex beam failure

Very sorry to hear about the baseplate problem. I have added some
cautionary language to my website to warn of such possibilities and
suggest use of metal if available.

I'm curious; what did you use for spreaders?

73,

Leo, K4KIO

--- In hex-beam@yahoogroups.com, "wb2lsu" <wb2lsu@...> wrote:
>
> Just finished construction of my K4KIO hex with the base plate made of
> cutting board(as instructed). It warped and bent in less than 24 hrs.
> Anyone experience the same? QTH is SE Florida) I am now going to
> aluminum
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.3/474 - Release Date: 2006/10/13

[Non-text portions of this message have been removed]

3453. Re: Hex beam failure

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-13 22:32:23 UTC
From: Steve
Topic: 3440 Message: 3453

I used a thick cutting-board (from Tesco for UK readers), and so far have not seen any problems. But I bolted 6 lengths of stiff aluminium angle to the board, and then tie-wrapped the spreader to the aluminium. It seems to me this might unwittingly have resulted in a useful stiffening of the baseplate.

It would be interesting to hear what spreader-mounting method was being used by the folks that have suffered failures, just to see if there is some common factor in play.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "k4kio" <k4kio@...> wrote:
>
> Very sorry to hear about the baseplate problem. I have added some
> cautionary language to my website to warn of such possibilities and
> suggest use of metal if available.
>
> I'm curious; what did you use for spreaders?
>
> 73,
>
> Leo, K4KIO
>
> --- In hex-beam@yahoogroups.com, "wb2lsu" <wb2lsu@> wrote:
> >
> > Just finished construction of my K4KIO hex with the base plate
made of
> > cutting board(as instructed). It warped and bent in less than 24
hrs.
> > Anyone experience the same? QTH is SE Florida) I am now going to
> > aluminum
> >
>

3454. Re: Hex beam failure

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-14 01:47:35 UTC
From: slolawfirm
Topic: 3440 Message: 3454

The Florida heat and UV probably caused the failure. Did you use a double thickness boards?

--- In hex-beam@yahoogroups.com, "John Lepire" <kd5dfm@...> wrote:
>
> >I have added some
> >cautionary language to my website to warn of such possibilities
>
> i do also @$&#(@#@((Q* hee hee ;-p
> ----- Original Message -----
> From: k4kio
> To: hex-beam@yahoogroups.com
> Sent: Friday, October 13, 2006 2:33 PM
> Subject: [hex-beam] Re: Hex beam failure
>
>
> Very sorry to hear about the baseplate problem. and
> suggest use of metal if available.
>
> I'm curious; what did you use for spreaders?
>
> 73,
>
> Leo, K4KIO
>
> --- In hex-beam@yahoogroups.com, "wb2lsu" <wb2lsu@> wrote:
> >
> > Just finished construction of my K4KIO hex with the base plate made of
> > cutting board(as instructed). It warped and bent in less than 24 hrs.
> > Anyone experience the same? QTH is SE Florida) I am now going to
> > aluminum
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

3455. Beamwidth?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-14 05:24:40 UTC
From: kc0rdg
Topic: 3455 Message: 3455

All,

I am wondering if anyone knows the width of the beam on the front end.
Thanks!

Elijah

3456. Spreaders

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-14 01:19:04 UTC
From: wb2lsu
Topic: 1249 Message: 3456

Leo:
Everything as per your website including the crabbie poles. I hope to have it done by next week with aluminum base (hopefully it tunes quick). I appreciate all the help.
Bruce, WB2LSU

3457. Re: New File - dipole performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-14 07:44:22 UTC
From: Steve
Topic: 3435 Message: 3457

Eran,

The MSWord document is in the "Files" section of this Yahoo Group - look in the G3TXQ folder.

Let me know if for some reason you can't access it there.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Eran Agmon" <eran@...> wrote:
>
> That sounds very interesting Steve!
> Could you please email me the MSWord document.
> Much Mahalo & Warmest Aloha,
> Eran WH6R
>
> On 11 Oct 2006 at 12:51, Steve wrote:
>
> >
> > Hi Folks,
> >
> > When I first got interested in the HexBeam, I wondered if there
might
> > be other element "shapes" that could form the basis of a compact
beam.
> > So I modelled about a dozen different Driver shapes, looking at
their
> > 20m Gain, resonant Impedance, and SWR bandwidth. The "Holy Grail"
was
> > a shape with a very small turning radius that had high performance
> > parameters - I didn't find it, or I'd be off making my millions :)
> >
> > I thought some members of the Group might be interested in the
> > results, which are now in an MSWord document within the G3TXQ
> > folder
> > of the Files section. Hopefully the description of the different
> > shapes will be self-explanatory. Some of the shapes have a
vertical
> > component - for example, the quad loop - so although the turning
> > radius is quite small you have to rememebr that it also occupies
> > vertical space.
> >
> > I guess the clear message from these results is that you never
> > get "something for nothing" - generally, the bigger the turning
> > radius the higher the Gain, Impedance and SWR. There's quite a

lot of
> > scatter, but in the case of Impedance there's almost a linear
> > relationship with turning radius.
> >
> > As you'd expect, the performance of our favourite antenna (the
Hex) is
> > pretty much consistent with its size. Perhaps the most impressive
is
> > the 14.6' dipole loaded with eight 2'spokes at each end - of
course
> > the problems come when you try to turn this into a multiband beam!
> >
> > 73,
> > Steve
> >
> >
>

3458. Re: Beamwidth?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-14 07:52:29 UTC
From: Steve
Topic: 3455 Message: 3458

Elijah,

Typically 80 degrees (plus and minus 40) between the "half-power"
points for a 20m monobander.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@...> wrote:
>
> All,
>
> I am wondering if anyone knows the width of the beam on the front end.
> Thanks!
>
> Elijah
>

3459. Re: Beamwidth?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-14 23:40:08 UTC
From: kc0rdg
Topic: 3455 Message: 3459

Wow that is wider than I thought. Thanks

--- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
>
> Elijah,
>
> Typically 80 degrees (plus and minus 40) between the "half-power"
> points for a 20m monobander.
>
> 73,
> Steve G3TXQ

3460. Re: [hex-beam] Re: Beamwidth?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-15 01:29:56 UTC
From: Harold Burton
Topic: 3455 Message: 3460

I had thought it was about 60 degrees. Figured it had to be fairly wide
or the gain would've been higher. I'm not used to being right (or close
to right), it's an enjoyable sensation.(G)

Harold
KD5SAK

----- Original Message -----
From: "kc0rdg" <kc0rdg@...>
To: <hex-beam@yahoogroups.com>
Sent: Saturday, October 14, 2006 6:40 PM
Subject: [hex-beam] Re: Beamwidth?

> Wow that is wider than I thought. Thanks
>
> --- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
>>
>> Elijah,
>>
>> Typically 80 degrees (plus and minus 40) between the "half-power"
>> points for a 20m monobander.
>>
>> 73,
>> Steve G3TXQ
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.13.4/475 - Release Date:
> 10/13/2006
>
>

3461. Re: Beamwidth?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-15 08:41:56 UTC
From: Steve
Topic: 3455 Message: 3461

Harold,

80 degrees is typical at the operating frequency where F/B is
highest, but where the gain is about 1dB below max.

If you were to operate at the frequency where gain is maximum, the
beamwidth would be a little less: 72 degrees - however the F/B would
be a dismal 6dB!

So your 60 degrees is not so far off the mark!

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Harold Burton" <kd5sak@...> wrote:
>
> I had thought it was about 60 degrees. Figured it had to be fairly
wide
> or the gain would've been higher. I'm not used to being right (or
close
> to right), it's an enjoyable sensation.(G)
>
> Harold
> KD5SAK
>
> ----- Original Message -----
> From: "kc0rdg" <kc0rdg@...>
> To: <hex-beam@yahoogroups.com>
> Sent: Saturday, October 14, 2006 6:40 PM
> Subject: [hex-beam] Re: Beamwidth?
>
>
> > Wow that is wider than I thought. Thanks
> >
> > --- In hex-beam@yahoogroups.com, "Steve" <steve@> wrote:
> >>
> >> Elijah,
> >>
> >> Typically 80 degrees (plus and minus 40) between the "half-power"
> >> points for a 20m monobander.
> >>
> >> 73,
> >> Steve G3TXQ
> >
> >
> >

> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> > --
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.394 / Virus Database: 268.13.4/475 - Release Date:
> > 10/13/2006
> >
> >
>

3462. Re: [hex-beam] Re: Beamwidth?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-15 11:34:20 UTC
From: Harold Burton
Topic: 3455 Message: 3462

Thanks, Steve. I had never really put any intensive study into it (being a relatively new and ignorant Ham despite my considerable age). The other homebrew Hexbeamer here in town had had a bit of trouble with imprecision in his rotor. I had guessed that the beamwidth was wide enough that as much as 10 or 15 degress off would not cause him much problem. I don't really think his light rotor was that far off and your beanwidth figures will allow me to reassure him.

Harold
KD5SAK

----- Original Message -----
From: "Steve" <steve@...>
To: <hex-beam@yahoogroups.com>
Sent: Sunday, October 15, 2006 3:41 AM
Subject: [hex-beam] Re: Beamwidth?

> Harold,
>
> 80 degrees is typical at the operating frequency where F/B is
> highest, but where the gain is about 1dB below max.
>
> If you were to operate at the frequency where gain is maximum, the
> beamwidth would be a little less: 72 degrees - however the F/B would
> be a dismal 6dB!
>
> So your 60 degrees is not so far off the mark!
>
> 73,
> Steve G3TXQ
>
>
> --- In hex-beam@yahoogroups.com, "Harold Burton" <kd5sak@...> wrote:
>>
>> I had thought it was about 60 degrees. Figured it had to be fairly
> wide
>> or the gain would've been higher. I'm not used to being right (or
> close
>> to right), it's an enjoyable sensation.(G)
>>
>> Harold
>> KD5SAK
>>
>> ----- Original Message -----
>> From: "kc0rdg" <kc0rdg@...>
>> To: <hex-beam@yahoogroups.com>

>> Sent: Saturday, October 14, 2006 6:40 PM
>> Subject: [hex-beam] Re: Beamwidth?
>>
>>
>> > Wow that is wider than I thought. Thanks
>> >
>> > --- In hex-beam@yahoogroups.com, "Steve" <steve@> wrote:
>> >>
>> >> Elijah,
>> >>
>> >> Typically 80 degrees (plus and minus 40) between the "half-power"
>> >> points for a 20m monobander.
>> >>
>> >> 73,
>> >> Steve G3TXQ
>> >
>> >
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>> >
>> > Yahoo! Groups Links
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>> >
>> >
>> >
>> > --
>> > No virus found in this incoming message.
>> > Checked by AVG Free Edition.
>> > Version: 7.1.394 / Virus Database: 268.13.4/475 - Release Date:
>> > 10/13/2006
>> >
>> >
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>
>
> Yahoo! Groups Links
>
>
>
>
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>
>

> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.13.4/475 - Release Date:
> 10/13/2006
>
>

3463. Installation info

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-17 12:58:33 UTC
From: kn0rgj
Topic: 3463 Message: 3463

Hello,
Spoke with Mike yesterday and a mutlibander is heading my way.

Two questions:
What is the minimum length of mast to have above the rotor for this beam?
What size drill bit do I need to drill the hole for fixing the beam to the mast? Seems like whatever size I need it is always dull. Want to have a new one here when the package arrives.
73,
John
N0LT

3464. E-mail address for Traffie?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-18 08:30:52 UTC
From: Andy Chadwick
Topic: 3464 Message: 3464

Hi,

Does anyone have a current e-mail address for Traffie Technology?

Or is he still an e-mail recluse, despite having a website?

73,

Andy, ZC4VJ

3465. Re: [hex-beam] E-mail address for Traffie?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-18 14:34:26 UTC
From: Transpacific
Topic: 3464 Message: 3465

no email, just website.
Tom
----- Original Message -----
From: Andy Chadwick
To: hex-beam@yahoogroups.com
Sent: Wednesday, October 18, 2006 1:30 AM
Subject: [hex-beam] E-mail address for Traffie?

Hi,

Does anyone have a current e-mail address for Traffie Technology?

Or is he still an e-mail recluse, despite having a website?

73,

Andy, ZC4VJ

[Non-text portions of this message have been removed]

3466. Re: [hex-beam] E-mail address for Traffie?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-18 10:50:56 UTC
From: bicyclepeddlers@netzero.net
Topic: 3464 Message: 3466

Andy,
When I was speaking with Kathy (sp?) this weekend she said
they do not use email.
My quess is Mike is quite busy as he has his hands full with the Hex
Beam business and taking those related calls.
73,
John
N0LT

3467. Re: E-mail address for Traffie?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-18 13:30:56 UTC
From: takagawa
Topic: 3464 Message: 3467

I am afraid he still is. I am not sure if he is affected, but in
remote areas in US, they only have very unstable dial-up connection.

Sada, K2AJ/ex.YA1D

--- In hex-beam@yahoogroups.com, "Andy Chadwick" <andy@...> wrote:
>
> Hi,
>
> Does anyone have a current e-mail address for Traffie Technology?
>
> Or is he still an e-mail recluse, despite having a website?
>
> 73,
>
> Andy, ZC4VJ
>

3468. Re: [hex-beam] E-mail address for Traffie?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-19 02:30:13 UTC
From: bur52@aol.com
Topic: 3464 Message: 3468

Mr Traffie does not use email...says he does not have it.
He will answer calls, I spoke to him a few times, before I bought mine.
Great guy !
73
JohnB

[Non-text portions of this message have been removed]

3469. Re: New File - dipole performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-19 16:03:12 UTC
From: slolawfirm
Topic: 3435 Message: 3469

Hi Steve,

I should be assembling the shortened 40m - 10m hexbeam this weekend; (took some time to get the flexweave wire for the 10 - 20m elements.) The 40m elements have already been made. (The weight of the RG-58 may be a factor.

One thought though, if connecting the reflector and driven elements seems to improve performance, would feeding the multiband as if it were a log periodic work? (I am not versed in modeling, but will give it a firt shot; I suspect the feed point impedence would be increased requiring a 4:1 balun.)

Thanks,

Phil KM6CZ

--- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
>
> Eran,
>
> The MSWord document is in the "Files" section of this Yahoo Group -
> look in the G3TXQ folder.
>
> Let me know if for some reason you can't access it there.
>
> 73,
> Steve G3TXQ
>
> --- In hex-beam@yahoogroups.com, "Eran Agmon" <eran@> wrote:
> >
> > That sounds very interesting Steve!
> > Could you please email me the MSWord document.
> > Much Mahalo & Warmest Aloha,
> > Eran WH6R
> >
> > On 11 Oct 2006 at 12:51, Steve wrote:
> >
> > >
> > > Hi Folks,
> > >
> > > When I first got interested in the HexBeam, I wondered if there
> might
> > > be other element "shapes" that could form the basis of a
compact
> beam.

> > > So I modelled about a dozen different Driver shapes, looking at
> their
> > > 20m Gain, resonant Impedance, and SWR bandwidth. The "Holy
Grail"
> was
> > > a shape with a very small turning radius that had high
performance
> > > parameters - I didn't find it, or I'd be off making my
millions :)
> > >
> > > I thought some members of the Group might be interested in the
> > > results, which are now in an MSWord document within the G3TXQ
> > > folder
> > > of the Files section. Hopefully the description of the different
> > > shapes will be self-explanatory. Some of the shapes have a
> vertical
> > > component - for example, the quad loop - so although the turning
> > > radius is quite small you have to rememebr that it also occupies
> > > vertical space.
> > >
> > > I guess the clear message from these results is that you never
> > > get "something for nothing" - generally, the bigger the turning
> > > radius the higher the Gain, Impedance and SWR. There's quite a
> lot of
> > > scatter, but in the case of Impedance there's almost a linear
> > > relationship with turning radius.
> > >
> > > As you'd expect, the performance of our favourite antenna (the
> Hex) is
> > > pretty much consistent with its size. Perhaps the most
impressive
> is
> > > the 14.6' dipole loaded with eight 2'spokes at each end - of
> course
> > > the problems come when you try to turn this into a multiband
beam!
> > >
> > > 73,
> > > Steve
> > >
> > >
> >
>

3470. Re: New File - dipole performance

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-19 19:40:04 UTC
From: Steve
Topic: 3435 Message: 3470

Phil,

I would "play safe" and stick to the conventional feed arrangement for now. My idea is as yet totally unproven, and your design has enough original features without the addition of another "unknown"!

I'll give your Log Periodic idea some thought. If I understand it correctly, in a LP you are driving all elements simultaneously and relying on the fact that only the 2 or 3 that are close to resonance will respond; these then form a 2/3 element array because of their relative lengths.

My feed arrangement is more akin to the W8JK type of array, in common with which it exhibits a very low feed impedance - of the order of 8 Ohms. It also requires a quite different Driver / Reflector ratio than normal in order to get the right relative current magnitude and phase for beam action. It may be in practice that the high circulating currents produce losses which nullify much of the improvement!

I'm currently modelling folding the elements - this shows some promise, not only for my new feed arrangement, but also for the conventional feed. It improves the bandwidth and seems to produce better average gain figures.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "slolawfirm" <philipas@...> wrote:
>
> Hi Steve,
>
> I should be assembling the shortened 40m - 10m hexbeam this weekend;
> (took some time to get the flexweave wire for the 10 - 20m elements.)
> The 40m elements have already been made. (The weight of the RG-58 may
> be a factor.
>
> One thought though, if connecting the reflector and driven elements
> seems to improve performance, would feeding the multiband as if it
> were a log periodic work? (I am not versed in modeling, but will give
> it a firt shot; I suspect the feed point impedence would be increased

> requiring a 4:1 balun.)
>
> Thanks,
>
> Phil KM6CZ
>
>
> --- In hex-beam@yahoogroups.com, "Steve" <steve@> wrote:
> >
> > Eran,
> >
> > The MSWord document is in the "Files" section of this Yahoo
Group -
> > look in the G3TXQ folder.
> >
> > Let me know if for some reason you can't access it there.
> >
> > 73,
> > Steve G3TXQ
> >
> > --- In hex-beam@yahoogroups.com, "Eran Agmon" <eran@> wrote:
> > >
> > > That sounds very interesting Steve!
> > > Could you please email me the MSWord document.
> > > Much Mahalo & Warmest Aloha,
> > > Eran WH6R
> > >
> > > On 11 Oct 2006 at 12:51, Steve wrote:
> > >
> > > >
> > > > Hi Folks,
> > > >
> > > > When I first got interested in the HexBeam, I wondered if
there
> > might
> > > > be other element "shapes" that could form the basis of a
> compact
> > beam.
> > > > So I modelled about a dozen different Driver shapes, looking
at
> > their
> > > > 20m Gain, resonant Impedance, and SWR bandwidth. The "Holy
> Grail"
> > was
> > > > a shape with a very small turning radius that had high
> performance
> > > > parameters - I didn't find it, or I'd be off making my
> millions :)
> > > >
> > > > I thought some members of the Group might be interested in

the
> > > > results, which are now in an MSWord document within the G3TXQ
> > > > folder
> > > > of the Files section. Hopefully the description of the
different
> > > > shapes will be self-explanatory. Some of the shapes have a
> > vertical
> > > > component - for example, the quad loop - so although the
turning
> > > > radius is quite small you have to rememebr that it also
occupies
> > > > vertical space.
> > > >
> > > > I guess the clear message from these results is that you
never
> > > > get "something for nothing" - generally, the bigger the
turning
> > > > radius the higher the Gain, Impedance and SWR. There's quite
a
> > lot of
> > > > scatter, but in the case of Impedance there's almost a linear
> > > > relationship with turning radius.
> > > >
> > > > As you'd expect, the performance of our favourite antenna
(the
> > Hex) is
> > > > pretty much consistent with its size. Perhaps the most
> impressive
> > is
> > > > the 14.6' dipole loaded with eight 2'spokes at each end - of
> > course
> > > > the problems come when you try to turn this into a multiband
> beam!
> > > >
> > > > 73,
> > > > Steve
> > > >
> > > >
> > >
> >
>

3471. Stray RF

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-20 04:57:42 UTC
From: kc0rdg
Topic: 3471 Message: 3471

All,

I have purchased the Hex 5 bander, serial 449. So far I am loving it, however just having upgraded to General this week, I am not sure what I have been missing as the previous antenna was a Inverted L used just for listening as a Tech. That said, I am having some issues with stray RF and need some help.

The Hex is mounted to my chimney the 20 meter element being at about 30 feet. It's fed with a 60 foot run from feedpoint to rig with LMR-400 Ultra. Below the Hex elements I have installed 6 type 77 torroids that I ordered with my Hex. The station/shack is about 3-4 feet underground in my basement and the feedline runs up and out the window, next to the house and up to the Hex.

None of my station equipement is grounded, I was under the impression that I did not need a ground with this setup, apparently I was wrong :)

On the same side of the house where the feedline exits, there is a sidewalk that runs along the side of the house which prevents me from driving a ground rod right outside the window. I have made a 6 inch copper pipe 'rod' and used copper flashing to tie my radio and tuner to it (with seperate runs each). There is then a seperate from it run out the window, across the sidewalk and into a copper pipe that I hammered into the ground. When I TX my speakers will have some fuzz or buzz to them sometimes. It mostly happens when the beam is pointed in the direction of the computer/shack (incidentally this is the Europe path). If I point it towards the Caribbean or Pacific, it mostly goes away. If I put my hand to the radio and touch it or the tuner, it completely goes away. It seems to happen on 20 meters, but oddly enough only sometimes. 17 meters it has happened but only once. On 15 meters, my computer mouse stops working! Another thing is, I cannot tune the antenna on 30 or 40 even though I know it is possible with my tuner (AT-100Pro) and that the Hex has the ability to be tuned on these bands. When I try it, the tuner goes nuts, then quits and the rig shows minimal power out and huge SWR if I TX.

All of this has led me to believe I have a stray RF problem. The question is, what is causing it and how do I get rid of it once and for all?

Someone mentioned it might be because my run is 60 feet and that is a 1/4 wave on 20 meters. Someone said to install a choke balun, however I have 6 torroids on the line already. Someone said to ground all my stuff, which I have to the best of my ability with the location of the shack. I have pictures up on my site, the direct link to my antenna

page is http://www.qsl.net/kc0rdg/Hex.html

HELP and THANKS!!

Elijah/KC0RDG

3472. Re: Stray RF

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-20 08:35:57 UTC
From: Steve
Topic: 3471 Message: 3472

Elijah,

Sorry to hear of your problems.

The suggestion that you add more toroids is valid; just because you already have some near the beam doesn't preclude the need for some elsewhere on the coax run. It's worth trying a few more at the shack end.

I'm sure you'll get lots more good advice!

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@...> wrote:
>
> All,
>
> I have purchased the Hex 5 bander, serial 449. So far I am loving it,
> however just having upgraded to General this week, I am not sure what
> I have been missing as the previous antenna was a Inverted L used just
> for listening as a Tech. That said, I am having some issues with
> stray RF and need some help.
>
> The Hex is mounted to my chimney the 20 meter element being at about
> 30 feet. It's fed with a 60 foot run from feedpoint to rig with
> LMR-400 Ultra. Below the Hex elements I have installed 6 type 77
> torroids that I ordered with my Hex. The station/shack is about 3-4
> feet underground in my basement and the feedline runs up and out the
> window, next to the house and up to the Hex.
>
> None of my station equipement is grounded, I was under the impression
> that I did not need a ground with this setup, apparently I was wrong :)
>
> On the same side of the house where the feedline exits, there is a
> sidewalk that runs along the side of the house which prevents me from
> driving a ground rod right outside the window. I have made a 6 inch
> copper pipe 'rod' and used copper flashing to tie my radio and tuner
> to it (with seperate runs each). There is then a seperate from it run

> out the window, across the sidewalk and into a copper pipe that I
> hammered into the ground. When I TX my speakers will have some fuzz
> or buzz to them sometimes. It mostly happens when the beam is
pointed
> in the direction of the computer/shack (incidentally this is the
> Europe path). If I point it towards the Caribbean or Pacific, it
> mostly goes away. If I put my hand to the radio and touch it or the
> tuner, it completely goes away. It seems to happen on 20 meters,
but
> oddly enough only sometimes. 17 meters it has happened but only
once.
> On 15 meters, my computer mouse stops working! Another thing is, I
> cannot tune the antenna on 30 or 40 even though I know it is
possible
> with my tuner (AT-100Pro) and that the Hex has the ability to be
tuned
> on these bands. When I try it, the tuner goes nuts, then quits and
> the rig shows minimal power out and huge SWR if I TX.
>
> All of this has led me to believe I have a stray RF problem. The
> question is, what is causing it and how do I get rid of it once and
> for all?
>
> Someone mentioned it might be because my run is 60 feet and that is
a
> 1/4 wave on 20 meters. Someone said to install a choke balun,
however
> I have 6 torroids on the line already. Someone said to ground all
my
> stuff, which I have to the best of my ability with the location of
the
> shack. I have pictures up on my site, the direct link to my antenna
> page is http://www.qsl.net/kc0rdg/Hex.html
>
> HELP and THANKS!!
>
> Elijah/KC0RDG
>

3473. Re: [hex-beam] Stray RF

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-20 12:34:42 UTC
From: Mike Van Winkle
Topic: 3471 Message: 3473

There are three things to note on your installation
that have a potential to create problems. First a lack
of an rf station ground ....NOT AN ELECTRICAL
GROUND...you seen to have solved the electrical part,
at least for your radio. Did you also ground the
computer chassis? I know many will debate the need for
RF ground but it does make a huge difference,
Secondly I also notice the distance the antenna is
above your station, It is close to 1/4 wave on 20.
This presents a high level rf field at your station
particularly on 20. Thirdly the coax length is
approximately 1/2 wavelength distance on 20 went you
account for the velocity factor of the coax....
There might be a simple fix for part of the problem!
Add about 40 feet of coax to your install and this
should get your tuner out of the mud. Then install
some 1/4 wave bare wires buried just under the sod
connenected to you ground pipe for the main bands you
will use..This creates an RF ground..AND BE SURE YOU
GROUND THE COMPUTER>>>THEY USUALLY HAVE LITTLE
GROUNDING!....W4HV

--- kc0rdg <kc0rdg@...> wrote:

> All,
>
> I have purchased the Hex 5 bander, serial 449. So
> far I am loving it,
> however just having upgraded to General this week, I
> am not sure what
> I have been missing as the previous antenna was a
> Inverted L used just
> for listening as a Tech. That said, I am having
> some issues with
> stray RF and need some help.
>
> The Hex is mounted to my chimney the 20 meter
> element being at about
> 30 feet. It's fed with a 60 foot run from feedpoint
> to rig with
> LMR-400 Ultra. Below the Hex elements I have
> installed 6 type 77
> torroids that I ordered with my Hex. The
> station/shack is about 3-4
> feet underground in my basement and the feedline

> runs up and out the
> window, next to the house and up to the Hex.
>
> None of my station equipement is grounded, I was
> under the impression
> that I did not need a ground with this setup,
> apparently I was wrong :)
>
> On the same side of the house where the feedline
> exits, there is a
> sidewalk that runs along the side of the house which
> prevents me from
> driving a ground rod right outside the window. I
> have made a 6 inch
> copper pipe 'rod' and used copper flashing to tie my
> radio and tuner
> to it (with seperate runs each). There is then a
> seperate from it run
> out the window, across the sidewalk and into a
> copper pipe that I
> hammered into the ground. When I TX my speakers
> will have some fuzz
> or buzz to them sometimes. It mostly happens when
> the beam is pointed
> in the direction of the computer/shack (incidentally
> this is the
> Europe path). If I point it towards the Caribbean
> or Pacific, it
> mostly goes away. If I put my hand to the radio and
> touch it or the
> tuner, it completely goes away. It seems to happen
> on 20 meters, but
> oddly enough only sometimes. 17 meters it has
> happened but only once.
> On 15 meters, my computer mouse stops working!
> Another thing is, I
> cannot tune the antenna on 30 or 40 even though I
> know it is possible
> with my tuner (AT-100Pro) and that the Hex has the
> ability to be tuned
> on these bands. When I try it, the tuner goes nuts,
> then quits and
> the rig shows minimal power out and huge SWR if I
> TX.
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> All of this has led me to believe I have a stray RF
> problem. The
> question is, what is causing it and how do I get rid
> of it once and
> for all?

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> Someone mentioned it might be because my run is 60
> feet and that is a
> 1/4 wave on 20 meters. Someone said to install a
> choke balun, however
> I have 6 torroids on the line already. Someone said
> to ground all my
> stuff, which I have to the best of my ability with
> the location of the
> shack. I have pictures up on my site, the direct
> link to my antenna
> page is http://www.qsl.net/kc0rdg/Hex.html
>
> HELP and THANKS!!
>
> Elijah/KC0RDG
>
>
>

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3474. Re: Stray RF

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-20 14:24:35 UTC
From: kc0rdg
Topic: 3471 Message: 3474

> Did you also ground the
> computer chassis?

No it is not grounded, I will ground the computer. I was wondering if this might have something to do with it.

> Add about 40 feet of coax to your install and this
> should get your tuner out of the mud.

40 feet!? Could I get by with say just 10 feet?

> Then install
> some 1/4 wave bare wires buried just under the sod
> connenected to you ground pipe for the main bands you
> will use..This creates an RF ground.

This is one reason I bought the Hexbeam and stayed away from the Inverted L, it was fed against ground and required a extensive radial system. I do not have the yard to put many radials down.

I was wondering if I just put a line isolator from Radio Works on, make a choke balun and put the 6 torroids on, would this do it? Rather than make an extensive RF ground, I'd just like to the choke the hell out of it before it even gets to me. Is this a possibility?

Elijah

> --- kc0rdg <kc0rdg@...> wrote:
>
> > All,
> >
> > I have purchased the Hex 5 bander, serial 449. So
> > far I am loving it,
> > however just having upgraded to General this week, I
> > am not sure what
> > I have been missing as the previous antenna was a
> > Inverted L used just
> > for listening as a Tech. That said, I am having
> > some issues with
> > stray RF and need some help.
> >
> > The Hex is mounted to my chimney the 20 meter
> > element being at about
> > 30 feet. It's fed with a 60 foot run from feedpoint
> > to rig with
> > LMR-400 Ultra. Below the Hex elements I have
> > installed 6 type 77

> > torroids that I ordered with my Hex. The
> > station/shack is about 3-4
> > feet underground in my basement and the feedline
> > runs up and out the
> > window, next to the house and up to the Hex.
> >
> > None of my station equipement is grounded, I was
> > under the impression
> > that I did not need a ground with this setup,
> > apparently I was wrong :)
> >
> > On the same side of the house where the feedline
> > exits, there is a
> > sidewalk that runs along the side of the house which
> > prevents me from
> > driving a ground rod right outside the window. I
> > have made a 6 inch
> > copper pipe 'rod' and used copper flashing to tie my
> > radio and tuner
> > to it (with seperate runs each). There is then a
> > seperate from it run
> > out the window, across the sidewalk and into a
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> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

3475. Re: [hex-beam] Re: Stray RF

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-20 19:45:37 UTC
From: Mike Van Winkle
Topic: 3471 Message: 3475

okay on not grounded...i must have
misunderstood...Regarding grounds of an rf nature, it
is not always about something to "work against" as in
your L set-up. This time its more about dissapating rf
energy being picked up by wiring and by your antenna
feedline. They don't have to be straight or even
perfect in length!...Just put in what you can and it
MAY help!..Surpringly it usually helps your recieve a
bit also!
On the feedline length, 10 feet will change it some
and may be helpful, but you really need the longer
length to allow you to get away from that 1/2 wave
multiple.Just roll the extra line up loosely into a
coil and put it out of the way...also honestly I
noticed you ae using a tuner they need that length of
coax to prevent problems with standing wave high
points along the line which can cause some very
strange results when you try to tune..THAT TUNER NEEDS
A GOOD GROUND TO GET BEST RESULTS!!!!!!! Also be sure
that hex-beam is presnting a reasonable SWR WITHOUT
the tuner...Traffie builts a good product but it
doesn't hurt to check!...W4HV

--- kc0rdg <kc0rdg@...> wrote:

> > Did you also ground the
> > computer chassis?
>
> No it is not grounded, I will ground the computer.
> I was wondering if
> this might have something to do with it.
>
> > Add about 40 feet of coax to your install and this
> > should get your tuner out of the mud.
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> 40 feet!? Could I get by with say just 10 feet?
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> > Then install
> > some 1/4 wave bare wires buried just under the sod
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> Inverted L, it was fed against ground and required a
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> system. I do not have the yard to put many radials
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> I was wondering if I just put a line isolator from
> Radio Works on,
> make a choke balun and put the 6 torroids on, would
> this do it?
> Rather than make an extensive RF ground, I'd just
> like to the choke
> the hell out of it before it even gets to me. Is
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> Elijah
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> > --- kc0rdg <kc0rdg@...> wrote:
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> > > torroids that I ordered with my Hex. The
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> > > None of my station equipement is grounded, I was
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3476. Re: Stray RF

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-21 02:29:26 UTC
From: kc0rdg
Topic: 3471 Message: 3476

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...> wrote:
> This time its more about dissapating rf
> energy being picked up by wiring and by your antenna
> feedline.

On this note, is it possible to totally dissapate the RF without the need for radials? Would it hurt to have a RF choke/isolator near the radio in the shack? Forgive me, I am new to all of this and can only learn by asking! :)

The Hex does have great SWR without the tuner inline. Incidentally, I took it out because I am unable to use it anyway as it just tries to tune like crazy, can't find a match and stops.

I guess another question I have is, I can get 40 feet of coax and coil it up in a corner somewhere, however this will a) cost money and b) put my total feedline at 100 feet. Is 100 feet a half wave of something?! Or put another way, could I do say 20 feet instead of 40 brining the total feedline to 60 feet? What it boils down to is, what is the least amount of cable I would have to buy to not have a multiple of 10-40m? Also, putting a "bullet" in and attaching more feedline will add some loss to the line. Something I wish I would have known before I did the whole project! Maybe it will be negligable.

The main issue is, I live in Minnesota and it is getting colder out and I'd like to resolve this issue before it snows here. Thanks for your help and if anyone else wants to chime in, feel free.

Thanks for the help,
Elijah

3477. Re: [hex-beam] Re: Stray RF

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-21 02:37:42 UTC
From: bur52@aol.com
Topic: 3471 Message: 3477

I use a 100 feet of RG8/u

Mine has flat swr (1.1 to 1.2) on all bands except 15, and 10 meters. There it will touch 1.3 or so. I do use a tuner . But I doubt it makes much difference in signal strength.
No RF into the shack. But with out good grounding anything is possible.
JohnB
k3jvb

[Non-text portions of this message have been removed]

3478. Re: Stray RF

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-21 08:57:12 UTC
From: Steve
Topic: 3471 Message: 3478

Elijah,

There are no "right and wrong" answers for these problems - everyone's situation is different.

I would try ferrite beads near the rig as a first step - it's relatively low cost and its probably the easiest solution to implement. If it doesn't work, move on and try some of the other suggestions.

By the way, leave your ferrite choke that is close to the antenna in place; as I said in an earlier posting the choke near the antenna doesn't rule out the need for one near the rig (and vice versa).

Good luck,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@...> wrote:
>
> --- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@>
wrote:
> > This time its more about dissapating rf
> > energy being picked up by wiring and by your antenna
> > feedline.
>
> On this note, is it possible to totally dissapate the RF without the
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only
> learn by asking! :)
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> The Hex does have great SWR without the tuner inline.
Incidentally, I
> took it out because I am unable to use it anyway as it just tries to
> tune like crazy, can't find a match and stops.
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> I guess another question I have is, I can get 40 feet of coax and
coil
> it up in a corner somewhere, however this will a) cost money and b)
> put my total feedline at 100 feet. Is 100 feet a half wave of
> something?! Or put another way, could I do say 20 feet instead of
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> brining the total feedline to 60 feet? What it boils down to is,
what
> is the least amount of cable I would have to buy to not have a

> multiple of 10-40m? Also, putting a "bullet" in and attaching more
> feedline will add some loss to the line. Something I wish I would
> have known before I did the whole project! Maybe it will be
negligable.
>
> The main issue is, I live in Minnesota and it is getting colder out
> and I'd like to resolve this issue before it snows here. Thanks for
> your help and if anyone else wants to chime in, feel free.
>
> Thanks for the help,
> Elijah
>

3479. Re: Stray RF

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-21 11:19:08 UTC
From: ownsyar
Topic: 3471 Message: 3479

Elijah,
I think there is a bit of confusion with the length of the feedline. First the HexBeam is approximately 1/4 wave (20 meters) higher than your shack. The 60 feed line is electrically 90 feet long (divide the physical length by the velocity factor) which is 1.3 wavelengths. So the notion of adding 40 feet (for a round 100 feet) would give 2.2 wavelengths. I think the 100 foot (physical length)came about because someone bought 100 feet of coax and didn't want to cut it up. The problem is with the shield of the coax which isn't effected by the velocity factor of the cable. What you want to do is put impedance in the shield path which is best done with ferrite cores.
Sometimes adding extra length to the feedline will make matching to the antenna a lot easier. This often requires a few extra feet of line. There is nothing magical about exactly 100 feet of coax.
GL Allen KA5N

3480. Re: Stray RF

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-21 20:07:25 UTC
From: kc0rdg
Topic: 3471 Message: 3480

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...> wrote:
> Regarding grounds of an rf nature, it
> is not always about something to "work against" as in
> your L set-up. This time its more about dissapating rf
> energy being picked up by wiring and by your antenna
> feedline. They don't have to be straight or even
> perfect in length!...Just put in what you can and it
> MAY help!..Surpringly it usually helps your recieve a
> bit also!

In reguards to the radials, do they have to be buried? Do they have to be bare copper wire touching the soil or can they be insulated just laying on the grass?

I was able to find a 15 foot piece of coax I had laying around. I added that to the 60 foot and added a choke balun, 8 turns around a 2 liter pop bottle. The tuner now tunes on 30 and 40! So I am starting to get there.

3481. Re: [hex-beam] Re: Stray RF

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-22 02:28:09 UTC
From: Mike Van Winkle
Topic: 3471 Message: 3481

Bare wire is best..It is usually easy to just split
the sod and push them under...I use an old ax or a
flat shovel to split the sod...Just push the wire in
and step on the sod ...when you get done water the
grass and in a couple weeks you would never
know.....Just laying on the grass will help but not
the best situation.People step on them! Get tripped,
Sue Ham op...NOT GOOD!!That set-up works single
purpose rf ground..Bare buried also helps electrically
as well!>>>>> Good luck! Sounds like you are on your
way!!!W4HV

--- kc0rdg <kc0rdg@...> wrote:

> --- In hex-beam@yahoogroups.com, Mike Van Winkle
> <janmike2001@...> wrote:
> > Regarding grounds of an rf nature, it
> > is not always about something to "work against" as
> in
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> turns around a 2
> liter pop bottle. The tuner now tunes on 30 and 40!
> So I am starting
> to get there.
>
>

>

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3482. Re: Stray RF

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-22 04:41:40 UTC
From: w4wb
Topic: 3471 Message: 3482

Congratulations Elijah on your new Hex-Beam. Am sure you will get many years of enjoyment from it. I noticed that you have received a lot of advise about solving your installation problems, which is a wonderful part of this Group.

I would like to note that when you have a proper installation, the length of the feed line is not really material, i.e., the SWR is a constant at all points along it. If it isn't done correctly, then it will vary and fiddling with the coax length will give some apparent relief, but the problem is just hidding. ;-)

One thing I don't believe anyone has mentioned is to check your coax connection to the connectors. I have seen too many cases of improper installation of the PL-239 causing such a problem. If you are unsure of the quality of the connection, cut off the old ones and install good quality ones properly. This is also a good time to add more Amidon FB-77-1024 beads. Put 10-12 if you really want to be sure. I use 8 myself, but a few folks needed more. You can also put some on the transmitter end as has already been suggested. Don't wrap your rotor cable with your coax.

If you have a RF current meter like the MFJ-853, then you can observe what current is on your coax shield exterior when your transmit.

You really don't need a ground with this arangement other than for safety issues. I have set up a Hex-Beam portable many times at 30-50' with a rotor and enough coax to get to the camper or whatever. The power generator was isolated from the radio by an UPS. No RFI issues at all. And yes, I was using a computer in general ... Field Day in some cases.

There was a case some years ago where a fellow was close under his HB (6-8') on the 2nd story of his house and he had RF problems. He had a ground wire tie wrapped to his coax for a good distance and this then when to a ground rod outside. He had to separate the ground wire and coax, and put an atrifical RF ground (MFJ-931 for example) in the ground wire (by the radio of course). As someone mentioned, the electrical ground isn't the same as an RF ground. He got his station operating FB after a bit of work.

Regarding the coax Elijah, I suggest you check any other jumpers you have in your system, even if you think they have been FB in the past. They can also cause a problem.

Just think Elijah, getting your installation working is often far easier than solving the problems associated with getting a mobile

rig operational! :-)

GL es 73,
Barry W4WB

--- In hex-beam@yahoogroups.com, "kc0rdg" <kc0rdg@...> wrote:
>
> All,
>
> I have purchased the Hex 5 bander, serial 449. So far I am loving
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> however just having upgraded to General this week, I am not sure
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> I have been missing as the previous antenna was a Inverted L used
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> page is http://www.qsl.net/kc0rdg/Hex.html
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> HELP and THANKS!!
>
> Elijah/KC0RDG
>

3483. hello group!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-22 13:27:46 UTC
From: kevin597941
Topic: 3483 Message: 3483

Hi all

I live in a small seaside lot, terraced with small garden. I am fortunate to have great neighbours and am looking to out perform my MQ1 Mini Beam.

I have a 41 foot two section tower, with an old Kenpro rotator. I have 4 5 metre fibreglass *crappie* poles at my disposal, and am able to get my hands on two more fairly rapidly.

Is there any interaction from a conductive (aluminium) centre plate, and I take it (duh) that the angles between poles is 60 degrees?

I am looking to build a (possibly) 4 band antenna, 20/15/17/10, do my basic outlines sound feasible?

I have seen the 40 metre versions in the pictures on the group, and they look just a little too big for my modest qth.

I would however LOVE to be able to build onto my frame a 30 metre beam if I had enough spreader.

Looking forward to any replies, and thanks for your patience.

Kev
M0TNX

3484. 5m and 4m shakespeare telescoping poles

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-23 07:45:16 UTC
From: dombaines
Topic: 3484 Message: 3484

Hi all,

At w/e I was operating portable on Norfolk coast and in the search for batteries to be able to operate the following day wandered into a fishing / angling shop and found 4m and 5m versions of the 8m and 9m telescoping poles I use for portable operation. The costs were £5 for 4m and £8 for 5m which seemed OK. I have a project that needs a couple at home anyway for a 4m 2 el beam so I bought 2 or each. However I remembered the hex beam and thought as I had never seen these on sale anywhere before so asking the group is £5 for a 4m pole about right?

No shipping costs etc and I could ask a relative to buy 6 for a hex beam that could be an xmas week project.

73

Dom
M1KTA

3485. Re: 5m and 4m shakespeare telescoping poles

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-24 12:03:20 UTC
From: Steve
Topic: 3484 Message: 3485

Dom,

Yes, £5 is about right for the 4m ones. I bought 8 on-line from
www.MOEFish.co.uk and paid £43.91 total including £3.99 postage.

Part number from MOEFish is: 73014 Shakespeare - Spear-Lite 4m Tele
Pole

They've got just a nice amount of "bend"

Get building - you wont be disappointed!

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "dombaines" <dombaines@...> wrote:
>
> Hi all,
>
> At w/e I was operating portable on Norfolk coast and in the search
for
> batteries to be able to operate the following day wandered into a
> fishing / angling shop and found 4m and 5m versions of the 8m and
9m
> telescoping poles I use for portable operation. The costs were £5
for
> 4m and £8 for 5m which seemed OK. I have a project that needs a
couple
> at home anyway for a 4m 2 el beam so I bought 2 or each. However I
> remembered the hex beam and thought as I had never seen these on
sale
> anywhere before so asking the group is £5 for a 4m pole about right?
>
> No shipping costs etc and I could ask a relative to buy 6 for a hex
> beam that could be an xmas week project.
>
> 73
>
> Dom
> M1KTA
>

3486. Re: hello group!!

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-24 12:08:24 UTC
From: Steve
Topic: 3483 Message: 3486

Kev,

There are no "dumb" questions in this game - we're all learning :)

Yes, the angle is 60 degrees. Dead easy to construct with a pair of compasses if you remember your maths!

Lots of folk use an aluminium baseplate (NOT centre pole), as does the commercial one from Mike Traffie, so you shouldn't have any problems.

Take a look at Leo's well-illustrated construction site if you want more detail: http://www.leoshoemaker.com/hexbeambyk4kio/general.html

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "kevin597941" <m0tnx@...> wrote:
>
> Hi all
>
> I live in a small seaside lot, terraced with small garden. I am
> fortunate to have great neighbours and am looking to out perform my
> MQ1 Mini Beam.
>
> I have a 41 foot two section tower, with an old Kenpro rotator. I
have
> 4 5 metre fibreglass *crappie* poles at my disposal, and am able to
> get my hands on two more fairly rapidly.
>
> Is there any interaction from a conductive (aluminium) centre plate,
> and I take it (duh) that the angles between poles is 60 degrees?
>
>
> I am looking to build a (possibly) 4 band antenna, 20/15/17/10, do
my
> basic outlines sound feasible?
>
> I have seen the 40 metre versions in the pictures on the group, and
> they look just a little too big for my modest qth.
>
> I would however LOVE to be able to build onto my frame a 30 metre
beam
> if I had enough spreader.
>
> Looking forward to any replies, and thanks for your patience.

>
>
> Kev
> M0TNX
>

3487. re: 5m and 4m shakespeare telescoping poles

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-24 16:20:07 UTC
From: kevin597941
Topic: 3484 Message: 3487

Don't know if it's the done thing, apologies in advance if not, but UK hams may find these people of interest, very fast service and quite competitively priced

http://www.skyblueleisure.co.uk/acatalog/Telescopic_Poles.html

Kev

M0TNX

3488. Re: 5m and 4m shakespeare telescoping poles

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-25 01:47:58 UTC
From: Colin
Topic: 3484 Message: 3488

Hi Kev
You might also try Chris at F.T.D (Fishing Tackle Direct)on Ebay
I bought 7x 8m and 8x 5m and it cost £56 incl the postage.

The reason for the low price is they can`t be sold for angling.. eg:
broken top eyelets, cracked plastic buttcap or simply a torn plastic
bag. None of which precludes their use for hexbeam building.

Most are still in the shed as i used heavy duty fibreglass tube from
RBJ Plastics for my 5 bander (2years old and going strong)
but the rods are there pending further antenna experiments ;)

Colin
m0xbm

--- In hex-beam@yahoogroups.com, "kevin597941" <m0tnx@...> wrote:
>
> Don't know if it's the done thing, apologies in advance if not, but UK
> hams may find these people of interest, very fast service and quite
> competitively priced
>
>
> http://www.skyblueleisure.co.uk/acatalog/Telescopic_Poles.html
>
> Kev
>
> M0TNX
>

3489. Re: 5m and 4m shakespeare telescoping poles

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-25 14:23:04 UTC
From: Steve
Topic: 3484 Message: 3489

Colin

I just took a look at RBJ Plastics website - interesting stuff.

If you've already answered this question just point me in the right direction; otherwise .....

I wonder what tubing combinations you used on your 5 bander - ODs, IDs, lengths etc. And did you get the same sort of "band spacings" as folk get with the "crappie" poles - in other words did the fibreglass tube take up the same shape?

73,
Steve

--- In hex-beam@yahoogroups.com, "Colin" <djcol1@...> wrote:
>
> Hi Kev
> You might also try Chris at F.T.D (Fishing Tackle Direct)on Ebay
> I bought 7x 8m and 8x 5m and it cost £56 incl the postage.
>
> The reason for the low price is they can`t be sold for angling..
eg:
> broken top eyelets, cracked plastic buttcap or simply a torn
plastic
> bag. None of which precludes their use for hexbeam building.
>
> Most are still in the shed as i used heavy duty fibreglass tube
from
> RBJ Plastics for my 5 bander (2years old and going strong)
> but the rods are there pending further antenna experiments ;)
>
> Colin
> m0xbm
>
> --- In hex-beam@yahoogroups.com, "kevin597941" <m0tnx@> wrote:
> >
> > Don't know if it's the done thing, apologies in advance if not,
but UK
> > hams may find these people of interest, very fast service and
quite
> > competitively priced
> >
> >
> > http://www.skyblueleisure.co.uk/acatalog/Telescopic_Poles.html
> >

> > Kev
> >
> > M0TNX
> >
>

3490. Re: 5m and 4m shakespeare telescoping poles

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-25 18:42:39 UTC
From: Colin
Topic: 3484 Message: 3490

Hi Steve
I used 19mm dia (3.2mm wall) and 12mm dia (2.25mm wall)which worked fine, it does tend to "bounce" a bit on really windy days.
It`s been up about 2 years and overall it`s good as the day it went up.
The spacing was a bit adrift but only between the plate and the 10m element ..maybe 8" instead of 10" as the heavy wall (1/8") didn`t bend enough in the short distance from the plate.

It`s virtually indestructable compared to fishing rods and you can be very brutal with it without worrying too much (i haven`t managed to break any yet!)

If i were to build another i`d go for a slightly thinner wall as the heavy stuff is overkill, something like this perhaps:

3 off 20.6mm OD x 16.2mm ID x 5 metres
3 off 16.2mm OD x 12.2mm ID x 5 metres
which may come to around £132.36 incl the vat and delivery..full 5.1m lengths.. not cut into pieces :)

Mine arrived within 24hours ..140miles via overnight train and lorry.

If you add 3 lengths of 12mm x 2.25mm wall (not too pricey from what i remember) you could share the expense with a friend and build two complete hexbeams with 3 section spreaders.

The wind took my 80m inverted L down today.. but the hex is still up
hi

73
Colin
m0xbm

--- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
>
> Colin
>
> I just took a look at RBJ Plastics website - interesting stuff.
>
> If you've already answered this question just point me in the right
> direction; otherwise .....
>
> I wonder what tubing combinations you used on your 5 bander - ODs,
> IDs, lengths etc. And did you get the same sort of "band spacings" as
> folk get with the "crappie" poles - in other words did the

fibreglass
> tube take up the same shape?
>
> 73,
> Steve
>
>
>
>
> --- In hex-beam@yahoogroups.com, "Colin" <djcol1@> wrote:
> >
> > Hi Kev
> > You might also try Chris at F.T.D (Fishing Tackle Direct)on Ebay
> > I bought 7x 8m and 8x 5m and it cost £56 incl the postage.
> >
> > The reason for the low price is they can`t be sold for angling..
> eg:
> > broken top eyelets, cracked plastic buttcap or simply a torn
> plastic
> > bag. None of which precludes their use for hexbeam building.
> >
> > Most are still in the shed as i used heavy duty fibreglass tube
> from
> > RBJ Plastics for my 5 bander (2years old and going strong)
> > but the rods are there pending further antenna experiments ;)
> >
> > Colin
> > m0xbm
> >
> > --- In hex-beam@yahoogroups.com, "kevin597941" <m0tnx@> wrote:
> > >
> > > Don't know if it's the done thing, apologies in advance if not,
> but UK
> > > hams may find these people of interest, very fast service and
> quite
> > > competitively priced
> > >
> > >
> > > http://www.skyblueleisure.co.uk/acatalog/Telescopic_Poles.html
> > >
> > > Kev
> > >
> > > M0TNX
> > >
> >
>

3491. centre plate/boss

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-26 16:27:42 UTC
From: kevin597941
Topic: 3491 Message: 3491

Would anyone be as kind as to answer if the centre boss/plate has to be non metallic please?

I have free access to Aluminium and wonder if it interacts with any of the wires on the antenna?

Kev

M0TNX

3492. Re: [hex-beam] centre plate/boss

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-26 22:38:13 UTC
From: Mike Van Winkle
Topic: 3491 Message: 3492

NO !!!!!!It can be any material strong enough to work with structurally!!! It needs to be able to stand UV rays, heat, cold, water, snow, and ice...You guess why traffie picks metal...Fit all these condition and lasts moe than a few years...Marine plywood painted with poly or spar varnish works well but you may want to make it a bit larger than the meteal version...One guy here used a plastic cutting board and it worked for him! Another tried the same and the florida sun made short work of it. Use your best choice of material and have fun playing with it!....W4HV

--- kevin597941 <m0tnx@...> wrote:

> Would anyone be as kind as to answer if the centre
> boss/plate has to
> be non metallic please?
>
> I have free access to Aluminium and wonder if it
> interacts with any of
> the wires on the antenna?
>
>
> Kev
>
> M0TNX
>
>
>

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http://mail.yahoo.com

3493. Re: centre plate/boss

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-27 00:22:52 UTC
From: Colin
Topic: 3491 Message: 3493

I`ll agree that almost anything can used if it`s tough enough but for
a trouble free once only job.. 1/4" (6mm) aluminium plate is probably
the best way to go.
NS4 grade aluminium is good as it`s suitable for use in marine
environments.

Tip: Try to persuade the wife to drop into a small engineering firm
to buy a 12" x 12" x 1/4" plate.
Being female they seem to get the most amazing discount..especially
if it`s for a "school" project :)

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...>
wrote:
>
> NO !!!!!!It can be any material strong enough to work
> with structurally!!! It needs to be able to stand UV
> rays, heat, cold, water, snow, and ice...You guess why
> traffie picks metal...Fit all these condition and
> lasts moe than a few years...Marine plywood painted
> with poly or spar varnish works well but you may want
> to make it a bit larger than the meteal version...One
> guy here used a plastic cutting board and it worked
> for him! Another tried the same and the florida sun
> made short work of it. Use your best choice of
> material and have fun playing with it!....W4HV
>
> --- kevin597941 <m0tnx@...> wrote:
>
> > Would anyone be as kind as to answer if the centre
> > boss/plate has to
> > be non metallic please?
> >
> > I have free access to Aluminium and wonder if it
> > interacts with any of
> > the wires on the antenna?
> >
> >
> > Kev
> >
> > M0TNX
> >
> >
> >
>
>

> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

3494. Benefits by increasing end spacing

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-30 09:15:42 UTC
From: Steve
Topic: 3494 Message: 3494

Hi Folks,

Encouraged by some earlier work by Leo (K4KIO) I have been running EZNEC simulations - 150 at the last count - of a 20m Hex at various end spacings. In a nutshell, increasing the end spacing .....

1) .... improves the peak F/B performance very significantly, although the bandwidth over which the F/B exceeds 10dB remains unchanged

2) .... modestly improves the forward Gain

3) .... increases (worsens) the 50 Ohm SWR performance

Interestingly, the F/B performance reaches a maximum with endspacings 80% greater than the values we have typically been using. The same trends were observed at 10m with a maximum at +60%.

I have published the detailed results in the Files section for those who would like to know more. Look for the MS Word document "End spacing experiments" in the G3TXQ folder.

73,
Steve G3TXQ

3495. Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-30 14:47:34 UTC
From: johncoralyn
Topic: 3495 Message: 3495

I have built a 17/20 Meter Hex beam. I will be using this Beam in Cambodia the month of November. If you would like to try a Hex to Hex contact please email me at johncoralyn@.... John Stransky KF0RQ
XU7ACQ

3496. MEGAHEX

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-31 02:33:30 UTC
From: Clay K7HC
Topic: 3496 Message: 3496

My 30/40 MegaHex is done, but still not up. I am working on a support that will get it up about 45 feet, still not as high as it should be. I am continuing to update the website with further detail on the project. http://www.linehand.com/k7hc-MegaHex.htm

3497. Re: [hex-beam] MEGAHEX

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-10-31 07:16:28 UTC
From: richard
Topic: 3496 Message: 3497

nice pictures
shame about the music

Dick m0clz

----- Original Message -----
From: Clay K7HC
To: hex-beam@yahoogroups.com
Sent: Tuesday, October 31, 2006 2:33 AM
Subject: [hex-beam] MEGAHEX

My 30/40 MegaHex is done, but still not up. I am working on a support
that will get it up about 45 feet, still not as high as it should be.
I am continuing to update the website with further detail on the
project. http://www.linehand.com/k7hc-MegaHex.htm

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.18/506 - Release Date: 30/10/2006

[Non-text portions of this message have been removed]

3498. model-2017151210.zip hex-beam from DL7IO ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-03 11:30:59 UTC
From: Giorgio
Topic: 3498 Message: 3498

Hello.
I tried to download "model-2017151210.zip (2kB)" from the site of DL7IO but link do not work.
Anyone know were I can found a 20/17/15/12/10 model (eznec, 4nec2 or mma) with TOP feeding ?
I have done a 4nec2 model but with bad result

Thanks in advance, Giorgio iv3ddm

3499. Re: model-2017151210.zip hex-beam from DL7IO ?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-03 14:28:04 UTC
From: Steve
Topic: 3498 Message: 3499

Giorgio,

I have uploaded a 5 band Top Feed EZNEC model to the Files section of this Group. Look in the G3TXQ folder.

Ignore the segment size warnings - the model produces acceptable Average Gain figures (< 0.4dB)and converges reasonably well.

I am working on a modified model with segment tapering which promises excellent Average Gain figures with fewer segments. I hope to be able to make it available within the next few days.

Any problems just email me direct

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Giorgio" <giorgio.emili@...> wrote:
>
> Hello.
> I tried to download "model-2017151210.zip (2kB)" from the site of
> DL7IO but link do not work.
> Anyone know were I can found a 20/17/15/12/10 model (eznec, 4nec2 or
> mma) with TOP feeding ?
> I have done a 4nec2 model but with bad result
>
> Thanks in advance, Giorgio iv3ddm
>

3500. Shortened 40m Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-06 04:07:44 UTC
From: km6cz
Topic: 3500 Message: 3500

Hi folks,

I was able to put together the 40m-10m hexbeam over this weekend. The use of RG-58U seems to work for the 40m elements although I did not get to put the antenna up. I tested the completed antenna on a patio table. 40m elements were difficult to tune, although I was able to get the SWR down to 3:1. The main difficulty was that the element spacing did not seem to work the same as with the wire elements. A short time after I completed the antenna, the XYL said no way is that going up on the roof. (The footprint was 25' across and immediately drew neighborhood interest..; even though I was building it in my driveway.) The size and added weight of the coaxial elements did require my redesigning the mast to baseplate and center support. (I used two cutting boards which worked ok for the baseplate, but the original center support using 1.25" Sch 40 PVC wasn't sufficient.)

In short, the concept seems to work, but will require some experimentation to determine the proper element spacing and more importantly, on the air testing to see if the 40m elements actually radiate, rather than act like a dummy load.

Unfortunately, I was not able to do much testing other than hooking up the MFJ-259 and adjusting the driven element once (from 5:1 down to 3:1 at 7.15 Mhz.. then the XYL veto.) I am now redesigning the antenna for the standard 20-10m configuration. The largest diameter fiberglass elements used (MaxGain) are fairly rigid; I plan on using shorter lengths of these and the smaller diameter rods to allow for greater bending of the spreaders. (There was not much bend where the 10,12,15m elements attached to the spreaders with the heavy fiberglass tubes.) All in all, this was an interesting experiment which shows promise. Lastly, I do have to agree with the XYL though, with the 40m elements, the hexbeam was as large as my TA-33M and more noticable to my neighbors.

73's

Phil

3501. Re: Shortened 40m Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-06 18:25:57 UTC
From: Steve
Topic: 3500 Message: 3501

Phil,

Sorry to hear that the XYL didn't appreciate the "beauty" of the big
HexBeam :)

You say you had trouble tuning the 40m elements. I wonder what
parameters you were measuring, and what values you were trying to
achieve? I'm interested to know if you have done any work to predict
the impedances of the RG-58U version, and how they differ from
a "regular wire" version.

Regards,
Steve

--- In hex-beam@yahoogroups.com, "km6cz" <philipas@...> wrote:
>
> Hi folks,
>
> I was able to put together the 40m-10m hexbeam over this weekend.
The
> use of RG-58U seems to work for the 40m elements although I did not
> get to put the antenna up. I tested the completed antenna on a
patio
> table. 40m elements were difficult to tune, although I was able to
> get the SWR down to 3:1. The main difficulty was that the element
> spacing did not seem to work the same as with the wire elements. A
> short time after I completed the antenna, the XYL said no way is
that
> going up on the roof. (The footprint was 25' across and immediately
> drew neighborhood interest..; even though I was building it in my
> driveway.) The size and added weight of the coaxial elements did
> require my redesigning the mast to baseplate and center support. (I
> used two cutting boards which worked ok for the baseplate, but the
> original center support using 1.25" Sch 40 PVC wasn't sufficient.)
>
> In short, the concept seems to work, but will require some
> experimentation to determine the proper element spacing and more
> importantly, on the air testing to see if the 40m elements actually
> radiate, rather than act like a dummy load.
>
> Unfortunately, I was not able to do much testing other than hooking
> up the MFJ-259 and adjusting the driven element once (from 5:1 down
> to 3:1 at 7.15 Mhz.. then the XYL veto.) I am now redesigning the
> antenna for the standard 20-10m configuration. The largest diameter
> fiberglass elements used (MaxGain) are fairly rigid; I plan on
using

> shorter lengths of these and the smaller diameter rods to allow for
> greater bending of the spreaders. (There was not much bend where
the
> 10,12,15m elements attached to the spreaders with the heavy
> fiberglass tubes.) All in all, this was an interesting experiment
> which shows promise. Lastly, I do have to agree with the XYL
though,
> with the 40m elements, the hexbeam was as large as my TA-33M and
more
> noticable to my neighbors.
>
> 73's
>
> Phil
>

3502. Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-07 12:04:47 UTC
From: johncoralyn
Topic: 3495 Message: 3502

--- In hex-beam@yahoogroups.com, "johncoralyn" <johncoralyn@...> wrote:
>
> I have built a 17/20 Meter Hex beam. I will be using this Beam in
> Cambodia the month of November. If you would like to try a Hex to
Hex
> contact please email me at johncoralyn@... John Stransky KF0RQ
> XU7ACQ
>
I have my hex beam up. Have not heard one station from US. I will let
you know if it is possible to contact anyone with time and freq. Low
sun spot hurting US contacts. John XU7ACQ/KF0RQ

3503. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-07 14:46:28 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 3503

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /RESULT_IV3DDM.zip
Uploaded by : iv3ddm <giorgio.emili@...>
Description : 5bands HB comparation from some model

You can access this file at the URL:
http://groups.yahoo.com/group/hex-beam/files/RESULT_IV3DDM.zip

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

iv3ddm <giorgio.emili@...>

3504. 5bands HB: comparation from some models

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-07 15:11:33 UTC
From: Giorgio
Topic: 3504 Message: 3504

I am not expert in antenna modelling AND I AM NOT SURE IF MY MODELS ARE CORRECTED, but I have tried to do a comparation from some 5 BANDS model with 4nec2 software:
- TOP FEED FROM DL7IO PDF BUILD WITH 4NEC2
- TOP FEED FROM G3TXQ EZNEC MODEL CONVERTED WITH 4NEC2
- BOTTOM FEED FROM LZ2BE.MAA MODEL BUILD WITH 4NEC2
- BOTTOM FEED FROM LZ2BE.MAA WITH MMANA-GAL for comparation with 4nec2

Some strange result:
- for lz2be model, SWR is lot of different from 4nec2 and mmana but gain not.
- Dl7IO model no give me any positive result, I think there is some of wrong in my NEc model but I do not find it.....

I have upload the file RESULT_IV3DDM.ZIP in files area.

Any comment is welcome!

73 de Giorgio iv3ddm

3505. Re: 5bands HB: comparation from some models

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-07 16:55:19 UTC
From: Steve
Topic: 3504 Message: 3505

Giorgio,

Some things for you to check:

1) Are the results all produced under the same conditions i.e. are they all in Free Space, or if they are above Real Ground are they all at the same height with the same ground conductivity and permittivity?

2) Are the wire guages the same for all models?

3) How good are the models? Do they have low Average Gains and are they convergent. [L B Cebik has useful information on his website about the accuracy of models] A quick look at the AGs of your models on 20m suggests that the DL7IO model is poor (1.39dB), the LZ2BE model is poor (1.16dB), and the G3TXQ model is acceptable (0.31dB)

4) Have you remembered to subtract the Average Gain figures from the Forward Gain figures?

K4KIO (Leo) and I have been doing a lot of work recently on optimising the modelling of HexBeams. One of our conclusions is that a "poor" model (which exhibits a high Average Gain)can still produce reasonably accurate Gain and F/B figures, but it will have very inaccurate Impedances, and hence SWRs.

It is particularly difficult to model accurately a 5 band HexBeam within the 500 segment limit of EZNEC, but Leo is currently working on a tapered-segmentation option which promises better accuracy.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Giorgio" <giorgio.emili@...> wrote:
>
> I am not expert in antenna modelling AND I AM NOT SURE IF MY MODELS
> ARE CORRECTED, but I have tried to do a comparation from some 5
BANDS
> model with 4nec2 software:
> - TOP FEED FROM DL7IO PDF BUILD WITH 4NEC2
> - TOP FEED FROM G3TXQ EZNEC MODEL CONVERTED WITH 4NEC2
> - BOTTOM FEED FROM LZ2BE.MAA MODEL BUILD WITH 4NEC2
> - BOTTOM FEED FROM LZ2BE.MAA WITH MMANA-GAL for comparation with
4nec2
>
> Some strange result:
> - for lz2be model, SWR is lot of different from 4nec2 and mmana but
> gain not.

> - Dl7IO model no give me any positive result, I think there is some
> of wrong in my NEc model but I do not find it.....
>
> I have upload the file RESULT_IV3DDM.ZIP in files area.
>
> Any comment is welcome!
>
> 73 de Giorgio iv3ddm
>

3506. Re: 5bands HB: comparation from some models

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-07 17:56:54 UTC
From: Steve
Topic: 3504 Message: 3506

Giorgio,

Some further information.

Your DL7IO model is producing some very strange impedance values. You appear to have 5 transmission lines interconnecting the bands - there should only be 4 ! Also, DL7IO does not use 50Ohm coax for his interconnections, so you may not be accurately modelling his design.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
>
> Giorgio,
>
> Some things for you to check:
>
> 1) Are the results all produced under the same conditions i.e. are
> they all in Free Space, or if they are above Real Ground are they
all
> at the same height with the same ground conductivity and
permittivity?
>
> 2) Are the wire guages the same for all models?
>
> 3) How good are the models? Do they have low Average Gains and are
> they convergent. [L B Cebik has useful information on his website
> about the accuracy of models] A quick look at the AGs of your
models
> on 20m suggests that the DL7IO model is poor (1.39dB), the LZ2BE
> model is poor (1.16dB), and the G3TXQ model is acceptable (0.31dB)
>
> 4) Have you remembered to subtract the Average Gain figures from
the
> Forward Gain figures?
>
> K4KIO (Leo) and I have been doing a lot of work recently on
> optimising the modelling of HexBeams. One of our conclusions is
that
> a "poor" model (which exhibits a high Average Gain)can still
produce
> reasonably accurate Gain and F/B figures, but it will have very
> inaccurate Impedances, and hence SWRs.
>
> It is particularly difficult to model accurately a 5 band HexBeam

> within the 500 segment limit of EZNEC, but Leo is currently working
> on a tapered-segmentation option which promises better accuracy.
>
> 73,
> Steve G3TXQ
>
>
>
>
> --- In hex-beam@yahoogroups.com, "Giorgio" <giorgio.emili@> wrote:
> >
> > I am not expert in antenna modelling AND I AM NOT SURE IF MY
MODELS
> > ARE CORRECTED, but I have tried to do a comparation from some 5
> BANDS
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> > - TOP FEED FROM DL7IO PDF BUILD WITH 4NEC2
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> > - BOTTOM FEED FROM LZ2BE.MAA WITH MMANA-GAL for comparation with
> 4nec2
> >
> > Some strange result:
> > - for lz2be model, SWR is lot of different from 4nec2 and mmana
but
> > gain not.
> > - Dl7IO model no give me any positive result, I think there is
some
> > of wrong in my NEc model but I do not find it.....
> >
> > I have upload the file RESULT_IV3DDM.ZIP in files area.
> >
> > Any comment is welcome!
> >
> > 73 de Giorgio iv3ddm
> >
>

3507. Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-08 02:23:03 UTC
From: John Stransky
Topic: 3495 Message: 3507

Hex up and on the air last night. Only 30 feet off ground. Big pile up from Europe. Worked several US stations on West Coast. Hex is much better than my old trap vertical. Will be on the air from 1500 to 1600 GMT on 14.245. This is a DX net and easer to make US contacts. If we make contact make sure you tell me you are using a HEX. I can also be on 17 meters. If this works we may be able to set up individual schedules. Have received many emails from HEX users so the DX net may be easer way to start. John XU7ACQ

John and Coralyn Stransky 303 776-2110 Fax 303 776-9845

3508. Re: [hex-beam] Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-08 02:32:20 UTC
From: bur52@aol.com
Topic: 3495 Message: 3508

Hi John

I am on the east coast of the USA. Maybe a sched early(eastern time) Sunday am. That is when I hear most Japan, Chinese...and Asia. I run my 5 band hex at 40 feet. Moderate power (700watts).I will be looking for ya
73
JohnB
k3jvb

[Non-text portions of this message have been removed]

3509. Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-08 04:24:52 UTC
From: Clay K7HC
Topic: 3495 Message: 3509

John,
Glad your up and operating! We'll all be waiting and watching for
sure. Good luck and 'lots of QSOs.
73 - Clay - K7HC

- In hex-beam@yahoogroups.com, John Stransky <johncoralyn@...> wrote:
>
> Hex up and on the air last night. Only 30 feet off
> ground. Big pile up from Europe. Worked several US
> stations on West Coast. Hex is much better than my old
> trap vertical. Will be on the air from 1500 to 1600
> GMT on 14.245. This is a DX net and easer to make US
> contacts. If we make contact make sure you tell me you
> are using a HEX. I can also be on 17 meters. If this
> works we may be able to set up individual schedules.
> Have received many emails from HEX users so the DX net
> may be easer way to start. John XU7ACQ
>
> John and Coralyn Stransky 303 776-2110 Fax 303 776-9845
>

3510. Re: 5bands HB: comparation from some models

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-08 11:13:28 UTC
From: Giorgio
Topic: 3504 Message: 3510

Hi Steve, tnx for all your info.

Before your msg, I do not knew average gain test and now I have read the Cebik article but I have many difficult with english...

I have eliminate 1 TL in excess to dl7io model, swr is better but not good.

I know that lz2be and dl7io models haven't caoax for feed but I think TL can be used also for these models...

I will delete my file in FILES section because not accurate.

73 de Giorgio

--- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
>
> Giorgio,
>
> Some further information.
>
> Your DL7IO model is producing some very strange impedance values. You
> appear to have 5 transmission lines interconnecting the bands - there
> should only be 4 ! Also, DL7IO does not use 50Ohm coax for his
> interconnections, so you may not be accurately modelling his design.
>
> 73,
> Steve G3TXQ
>
>
>
> --- In hex-beam@yahoogroups.com, "Steve" <steve@> wrote:
> >
> > Giorgio,
> >
> > Some things for you to check:
> >
> > 1) Are the results all produced under the same conditions i.e. are
> > they all in Free Space, or if they are above Real Ground are they
> all
> > at the same height with the same ground conductivity and
> permittivity?
> >

> > 2) Are the wire guages the same for all models?
> >
> > 3) How good are the models? Do they have low Average Gains and
are
> > they convergent. [L B Cebik has useful information on his website
> > about the accuracy of models] A quick look at the AGs of your
> models
> > on 20m suggests that the DL7IO model is poor (1.39dB), the LZ2BE
> > model is poor (1.16dB), and the G3TXQ model is acceptable (0.31dB)
> >
> > 4) Have you remembered to subtract the Average Gain figures from
> the
> > Forward Gain figures?
> >
> > K4KIO (Leo) and I have been doing a lot of work recently on
> > optimising the modelling of HexBeams. One of our conclusions is
> that
> > a "poor" model (which exhibits a high Average Gain)can still
> produce
> > reasonably accurate Gain and F/B figures, but it will have very
> > inaccurate Impedances, and hence SWRs.
> >
> > It is particularly difficult to model accurately a 5 band HexBeam
> > within the 500 segment limit of EZNEC, but Leo is currently
working
> > on a tapered-segmentation option which promises better accuracy.
> >
> > 73,
> > Steve G3TXQ
> >
> >
> >
> >
> > --- In hex-beam@yahoogroups.com, "Giorgio" <giorgio.emili@> wrote:
> > >
> > > I am not expert in antenna modelling AND I AM NOT SURE IF MY
> MODELS
> > > ARE CORRECTED, but I have tried to do a comparation from some 5
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> > > model with 4nec2 software:
> > > - TOP FEED FROM DL7IO PDF BUILD WITH 4NEC2
> > > - TOP FEED FROM G3TXQ EZNEC MODEL CONVERTED WITH 4NEC2
> > > - BOTTOM FEED FROM LZ2BE.MAA MODEL BUILD WITH 4NEC2
> > > - BOTTOM FEED FROM LZ2BE.MAA WITH MMANA-GAL for comparation
with
> > 4nec2
> > >
> > > Some strange result:
> > > - for lz2be model, SWR is lot of different from 4nec2 and mmana
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> > > gain not.
> > > - Dl7IO model no give me any positive result, I think there is
> some
> > > of wrong in my NEc model but I do not find it.....
> > >
> > > I have upload the file RESULT_IV3DDM.ZIP in files area.
> > >
> > > Any comment is welcome!
> > >
> > > 73 de Giorgio iv3ddm
> > >
> >
>

3511. Re: [hex-beam] Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-08 13:27:52 UTC
From: edward campbell
Topic: 3495 Message: 3511

Hi,
From Idaho I hear JA and the Pacific every day from 2100Z thru about 2400Z on 20/17/15 meters. I think that might be the times to look.It might be early A.M. your time..LOL
But will look for you..
73,
ED NT4TT Idaho Falls, Id

IC-740 barefoot and the traffie beam at 40'

John Stransky <johncoralyn@...> wrote:
Hex up and on the air last night. Only 30 feet off
ground. Big pile up from Europe. Worked several US
stations on West Coast. Hex is much better than my old
trap vertical. Will be on the air from 1500 to 1600
GMT on 14.245. This is a DX net and easer to make US
contacts. If we make contact make sure you tell me you
are using a HEX. I can also be on 17 meters. If this
works we may be able to set up individual schedules.
Have received many emails from HEX users so the DX net
may be easer way to start. John XU7ACQ

John and Coralyn Stransky 303 776-2110 Fax 303 776-9845

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$200,000 mortgage for $660/mo - 30/15 yr fixed, reduce debt, home equity - Click now for info

[Non-text portions of this message have been removed]

3512. Re: 5bands HB: comparation from some models

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-08 18:24:18 UTC
From: Steve
Topic: 3504 Message: 3512

Georgio,

You might try increasing the impedance of the transmission line on the DL7IO model to about 200 Ohms and see if the SWR improves. Holger's models often used a higher impedance line than 50 Ohms.

Also, have you remembered to allow for the Velocity Factor of the coax cable - I don't know whether 4nec2 handles this automatically for you?

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Giorgio" <iv3ddm@...> wrote:
>
> Hi Steve, tnx for all your info.
>
> Before your msg, I do not knew average gain test and now I have read
> the Cebik article but I have many difficult with english...
>
> I have eliminate 1 TL in excess to dl7io model, swr is better but
> not good.
>
> I know that lz2be and dl7io models haven't caoax for feed but I think
> TL can be used also for these models...
>
> I will delete my file in FILES section because not accurate.
>
> 73 de Giorgio
>
>
> --- In hex-beam@yahoogroups.com, "Steve" <steve@> wrote:
> >
> > Giorgio,
> >
> > Some further information.
> >
> > Your DL7IO model is producing some very strange impedance values. You
> > appear to have 5 transmission lines interconnecting the bands - there
> > should only be 4 ! Also, DL7IO does not use 50Ohm coax for his
> > interconnections, so you may not be accurately modelling his design.

> >
> > 73,
> > Steve G3TXQ
> >
> >
> >
> > --- In hex-beam@yahoogroups.com, "Steve" <steve@> wrote:
> > >
> > > Giorgio,
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> > > Some things for you to check:
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> > > model is poor (1.16dB), and the G3TXQ model is acceptable
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> > > 4) Have you remembered to subtract the Average Gain figures
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> > the
> > > Forward Gain figures?
> > >
> > > K4KIO (Leo) and I have been doing a lot of work recently on
> > > optimising the modelling of HexBeams. One of our conclusions is
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> > > reasonably accurate Gain and F/B figures, but it will have very
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> > > It is particularly difficult to model accurately a 5 band
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> > > within the 500 segment limit of EZNEC, but Leo is currently
> working

> > > on a tapered-segmentation option which promises better accuracy.
> > >
> > > 73,
> > > Steve G3TXQ
> > >
> > >
> > >
> > >
> > > --- In hex-beam@yahoogroups.com, "Giorgio" <giorgio.emili@>
wrote:
> > > >
> > > > I am not expert in antenna modelling AND I AM NOT SURE IF MY
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> > > > ARE CORRECTED, but I have tried to do a comparation from some
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> > > BANDS
> > > > model with 4nec2 software:
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> > > > - BOTTOM FEED FROM LZ2BE.MAA MODEL BUILD WITH 4NEC2
> > > > - BOTTOM FEED FROM LZ2BE.MAA WITH MMANA-GAL for comparation
> with
> > > 4nec2
> > > >
> > > > Some strange result:
> > > > - for lz2be model, SWR is lot of different from 4nec2 and
mmana
> > but
> > > > gain not.
> > > > - Dl7IO model no give me any positive result, I think there
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> > > > of wrong in my NEc model but I do not find it.....
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> > > > Any comment is welcome!
> > > >
> > > > 73 de Giorgio iv3ddm
> > > >
> > >
> >
>

3513. Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-08 19:06:12 UTC
From: Clay K7HC
Topic: 3495 Message: 3513

Hey John!
Was on frequency today, but could not copy you and I don't think you could copy me either. Will try every day until I make it. I got your info about an hour earlier as well. What is your probable operating freq on 17?
73 from the HEX NUTS
Clay - K7HC

--- In hex-beam@yahoogroups.com, John Stransky <johncoralyn@...> wrote:
>
> Hex up and on the air last night. Only 30 feet off
> ground. Big pile up from Europe. Worked several US
> stations on West Coast. Hex is much better than my old
> trap vertical. Will be on the air from 1500 to 1600
> GMT on 14.245. This is a DX net and easer to make US
> contacts. If we make contact make sure you tell me you
> are using a HEX. I can also be on 17 meters. If this
> works we may be able to set up individual schedules.
> Have received many emails from HEX users so the DX net
> may be easer way to start. John XU7ACQ
>
> John and Coralyn Stransky 303 776-2110 Fax 303 776-9845
>

3514. Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-08 23:15:16 UTC
From: John Stransky
Topic: 3495 Message: 3514

Was able to work W6HB HEX to HEX He had a 58 sig. Will be on 18.15 at 1500 tonight and 14.245 from about 1520 till 1630. K7HC tried but could not make it. John XU7ACQ

John and Coralyn Stransky 303 776-2110 Fax 303 776-9845

3515. RE: [hex-beam] Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-09 01:39:45 UTC
From: MHS Reunion Committee
Topic: 3495 Message: 3515

John,
I'll be listening for you.
I have a Hex Beam on 20 Meters.
I am a bit confused, however, by your use of "tonight" -- Would that be tomorrow night in Cambodia? Right now it is 8:35 PM, November 8, here in NJ but that is 0136 hrs tomorrow, No vember 9, in UTC time. What's that in Cambodia?

Still trying to get a valid e-mail for John, KF4ZLO. All I know is that he left for Cambodia in early September and the e-mail address I gave to you was supposedly going to be valid.

Jim, K2JXW
73 from K2JXW and the
Amateur Radio Lighthouse Society,
with 1400 members and over 10,000
subscribers, the largest lighthouse
society of its kind in the world!

==========
=

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of John Stransky
Sent: Wednesday, November 08, 2006 6:15 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Re: Hex Beam in Cambodia

Was able to work W6HB HEX to HEX He had a 58 sig. Will be on 18.15 at 1500 tonight and 14.245 from about 1520 till 1630. K7HC tried but could not make it. John
XU7ACQ

John and Coralyn Stransky 303 776-2110 Fax 303 776-9845

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.32/523 - Release Date: 11/7/2006

3516. Re: [hex-beam] Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-09 04:04:07 UTC
From: bur52@aol.com
Topic: 3495 Message: 3516

Thanks
Have the local governments put any restrictions on his operating ? I think 15 or 20 meters would be the way to go. Keep me in the loop...I would like to work him. And I could use Cambodia as a contact.
73
JohnB

[Non-text portions of this message have been removed]

3517. Re: [hex-beam] Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-08 10:33:53 UTC
From: leocorrea@adinet.com.uy
Topic: 3495 Message: 3517

John:
I do need Cambodia.
Will check propagation conditions to e-mail you for a sched
Thanks in advance.
73?' DX's
Leo CX3AL

>-- Mensaje original --
>To: hex-beam@yahoogroups.com
>From: bur52@...
>Date: Tue, 7 Nov 2006 21:32:20 EST
>Subject: Re: [hex-beam] Re: Hex Beam in Cambodia
>Reply-To: hex-beam@yahoogroups.com
>
>
>Hi John
>
>I am on the east coast of the USA. Maybe a sched early(eastern time) Sunday
>
>am. That is when I hear most Japan, Chinese...and Asia. I run my 5 band
>hex
>at 40 feet. Moderate power (700watts).I will be looking for ya
>73
>JohnB
>k3jvb
>
>
>[Non-text portions of this message have been removed]
>

3518. Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-09 16:08:15 UTC
From: Clay K7HC
Topic: 3495 Message: 3518

MADE IT HEX 2 HEX in XU! Thanks John. I could hear you on 17, but no copy for a QSO. On 20 you were way down at first and my first call did not make ie, but later your signal came up good and you were a good 5 x 5. By 1600 you were 5 x 9! Hope many HEX NUTS make it. Thanks for a new country.
73 - Clay - K7HC

- In hex-beam@yahoogroups.com, John Stransky <johncoralyn@...> wrote:
>
> Was able to work W6HB HEX to HEX He had a 58 sig. Will
> be on 18.15 at 1500 tonight and 14.245 from about 1520
> till 1630. K7HC tried but could not make it. John
> XU7ACQ
>
> John and Coralyn Stransky 303 776-2110 Fax 303 776-9845
>

3519. Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-09 18:53:56 UTC
From: Clay K7HC
Topic: 3495 Message: 3519

John,
Just for your information - I have been working Hong Cong with strong signals at 0030 Z. I think that's around 7:30 AM your time, but not at all sure about that. Thought you might like this info. Thanks again for the QSO - Clay - K7HC

--- In hex-beam@yahoogroups.com, "johncoralyn" <johncoralyn@...> wrote:
>
> --- In hex-beam@yahoogroups.com, "johncoralyn" <johncoralyn@> wrote:
> >
> > I have built a 17/20 Meter Hex beam. I will be using this Beam in
> > Cambodia the month of November. If you would like to try a Hex to
> Hex
> > contact please email me at johncoralyn@ John Stransky KF0RQ
> > XU7ACQ
> >
> I have my hex beam up. Have not heard one station from US. I will
let
> you know if it is possible to contact anyone with time and freq. Low
> sun spot hurting US contacts. John XU7ACQ/KF0RQ
>

3520. Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-11 00:15:35 UTC
From: John Stransky
Topic: 3495 Message: 3520

Have make many contacts to US between 1200 and 1600 GMT. East Coast at 1200 West at 1600. I will try to be on 14.245 2330 to 0030 call me I will listen. I will also try to be on 14.245 from 1400 to 1600 GMT I had a question about Cambodia goverment. No problems or restrictions. So far have worked two HEX stations, K7HC and W6hb. John XU7ACQ/KF0RQ

John and Coralyn Stransky 303 776-2110 Fax 303 776-9845

3521. Re: [hex-beam] Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-11 01:30:16 UTC
From: Alex, VE3NEA
Topic: 3495 Message: 3521

Hi John,

Are you planning on working CW? If so, what time and frequency?

73 Alex VE3NEA

Have make many contacts to US between 1200 and 1600
GMT. East Coast at 1200 West at 1600. I will try to be
on 14.245 2330 to 0030 call me I will listen. I will
also try to be on 14.245 from 1400 to 1600 GMT I had a
question about Cambodia goverment. No problems or
restrictions. So far have worked two HEX stations,
K7HC and W6hb. John XU7ACQ/KF0RQ

John and Coralyn Stransky 303 776-2110 Fax 303 776-9845

3522. Rotating mast wear and tear???

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-14 18:11:09 UTC
From: n6vl
Topic: 3522 Message: 3522

Hi,

I have had the parts for a Hex Beam sitting around for a while now. I have some time on my hands and am ready to assemble the beam. I am following the K4KIO plan even down to the same cutting board hub.

I am intrigued by Leo's rotating mast at http://www.leoshoemaker.com/hexbeambyk4kio/step7.html. I have a 30 foot slip up mast available and a used Ham II rotor which still needs to be tested. The rotor is quite heavy and lends itself to a rotating mast implementation. That way the weight is at the bottom.

I wonder about the effect of rotation on the guy rings. A local ham friend did something similar with long 2 meter beams for weak signal work. Certainly the hex beam is similar to a long 2 meter yagi in wind loading. My friend said to use bearings on the guy rings because of friction and wear from mast rotation.

Certainly I can get by without the bearings in the short run. My initial plan was to use a cheap TV rotor at the top. But I already have the big rotor on hand. And the bottom mounted rotor does reduce the required guying strength quite a bit. Also the hex beam may not be rotated as much as the 2 meter yagi. From the west coast, most of the time the beam will be aimed east northeast. Also the hex beam has a very broad pattern compared to a 2 meter long yagi. There will not be the same amount of precision rotation.

I will be clamping a short PVC section at the roof edge (about 9 feet up) for the mast to rotate in. That means a single set of guys at the top may work for now. Later a second set and be added one section down.

I am looking for any experience regarding guy ring wear and tear.

73,

Steve N6VL

3523. Re: [hex-beam] Rotating mast wear and tear???

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-14 18:53:59 UTC
From: Doug Faunt N6TQS +1-510-655-8604
Topic: 3522 Message: 3523

I installed a 2 element Steppir on a flat roof with the rotator on the bottom for a friend, and used a TB-105 support bearing for the top guy ring. It's got eyes for the purpose, and works well. They can, apparently, be had from http://www.starkelectronic.com/rotor.htm .

I used the stock ring, mostly unloaded, for the middle guy, for a backup guy set.

73, doug

From: "n6vl" <n6vl@...>
Date: Tue, 14 Nov 2006 18:11:09 -0000

Hi,

I am intrigued by Leo's rotating mast at http://www.leoshoemaker.com/hexbeambyk4kio/step7.html. I have a 30 foot slip up mast available and a used Ham II rotor which still needs to be tested. The rotor is quite heavy and lends itself to a rotating mast implementation. That way the weight is at the bottom.

I wonder about the effect of rotation on the guy rings. A local ham friend did something similar with long 2 meter beams for weak signal work. Certainly the hex beam is similar to a long 2 meter yagi in wind loading. My friend said to use bearings on the guy rings because of friction and wear from mast rotation.

Certainly I can get by without the bearings in the short run. My initial plan was to use a cheap TV rotor at the top. But I already have the big rotor on hand. And the bottom mounted rotor does reduce the required guying strength quite a bit. Also the hex beam may not be rotated as much as the 2 meter yagi. From the west coast, most of the time the beam will be aimed east northeast. Also the hex beam has a very broad pattern compared to a 2 meter long yagi. There will not be the same amount of precision rotation.

I will be clamping a short PVC section at the roof edge (about 9 feet up) for the mast to rotate in. That means a single set of guys at the top may work for now. Later a second set and be added one section down.

3524. Re: Rotating mast wear and tear???

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-14 21:41:09 UTC
From: n6vl
Topic: 3522 Message: 3524

Thanks Doug,

That could be just what I am looking for. From the pictures, it looks like there is a range of diameters. But I can't find any specs. I could use the TB-105 bearing at the top and bottom of the top section if needed. Two bearings could cover the top and 2/3 up from the bottom. And 1/3 up from the bottom I will let the mast rotate inside a short PVC pipe attached to the eaves.

I did a search and found another source. AES has it in stock as ECG TB105.

Now I hope my used rotor really works!

Again thanks for the info.

73,

Steve N6VL

--- In hex-beam@yahoogroups.com, Doug Faunt N6TQS +1-510-655-8604
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> I used the stock ring, mostly unloaded, for the middle guy, for a
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> 73, doug

3525. Re: [hex-beam] Re: Rotating mast wear and tear???

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-14 22:14:34 UTC
From: Doug Faunt N6TQS +1-510-655-8604
Topic: 3522 Message: 3525

Ah, the inside diameter of the TB-105 is limited, but think it was maximum 1.5 inches, with a bit of filing of flashing to get that. So, if you used a standard pushup pole, you could use one of those at the top, and on the second section.

We used the bottom three sections of a 4 section pole (or maybe the middle three of a 5 section), since that was what he had; and we were restricted in only guying to the roof and I wanted to maintain a good angle on those guys.

That meant the top section was 1.5 inches, and we redrilled the mast to boom plate to accomodate an appropriate clamp, since the supplied one was for a 2 inch mast. The bottom section was 2 inches, so that fit the HAM-II well.

And I really like the Idiom Press Rotor-EZ add-on.

73, doug

From: "n6vl" <n6vl@...>
Date: Tue, 14 Nov 2006 21:41:09 -0000

Thanks Doug,

That could be just what I am looking for. From the pictures, it looks like there is a range of diameters. But I can't find any specs. I could use the TB-105 bearing at the top and bottom of the top section if needed. Two bearings could cover the top and 2/3 up from the bottom. And 1/3 up from the bottom I will let the mast rotate inside a short PVC pipe attached to the eaves.

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Now I hope my used rotor really works!

Again thanks for the info.

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> backup guy set.
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Yahoo! Groups Links

3526. RE: [hex-beam] Rotating mast wear and tear???

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-14 20:00:35 UTC
From: K2JXW
Topic: 3522 Message: 3526

I have the 20 Meter Hex beam at 30 ft on a fiberglass 40-ft Wonderpole

(http://www.wonderpole.com/) with NO guy wires at all. The rotor is at the bottom and is a HyGain AR-40 (light duty -- see Hy-Gain QST ad). The whole mast rotates with no trouble whatsoever; and, with most of the weight at the botom, the fiberglass pole sways a bit but does not lose its heading, even in 50-60 MPH winds. Oh yes, the bottom section under the rotor is clamped into a GAP ground stake such as is used for tilt-over verticals.

Jim
K2JXW

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf Of n6vl
Sent: Tuesday, November 14, 2006 1:11 PM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Rotating mast wear and tear???

Hi,

I have had the parts for a Hex Beam sitting around for a while now. I have some time on my hands and am ready to assemble the beam. I am following the K4KIO plan even down to the same cutting board hub.

I am intrigued by Leo's rotating mast at http://www.leoshoemaker.com/hexbeambyk4kio/step7.html. I have a 30 foot slip up mast available and a used Ham II rotor which still needs to be tested. The rotor is quite heavy and lends itself to a rotating mast implementation. That way the weight is at the bottom.

I wonder about the effect of rotation on the guy rings. A local ham friend did something similar with long 2 meter beams for weak signal work. Certainly the hex beam is similar to a long 2 meter yagi in wind loading. My friend said to use bearings on the guy rings because of friction and wear from mast rotation.

Certainly I can get by without the bearings in the short run. My initial plan was to use a cheap TV rotor at the top. But I already have the big rotor on hand. And the bottom mounted rotor does reduce the required guying strength quite a bit. Also the hex beam may not be rotated as much as the 2 meter yagi. From the west coast, most of the time the beam will be aimed east northeast. Also the hex beam has a very broad pattern compared to a 2 meter long yagi. There will not be the same amount of precision rotation.

I will be clamping a short PVC section at the roof edge (about 9 feet up) for the mast to rotate in. That means a single set of guys at the top may work for now. Later a second set and be added one section down.

I am looking for any experience regarding guy ring wear and tear.

73,

Steve N6VL

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.5/533 - Release Date: 11/13/2006

3527. problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-13 13:50:10 UTC
From: johancmp
Topic: 3527 Message: 3527

I built a 5-band Hex-beam according to the exact measurements. For 20m the measurement is 5.52m times 2. The SWR on 20m was 2.8 at 5m above ground. I the started shortening the wire and eventually ended up in taking off 200cm per side, a total of 400cm overall. The SWR then came down to 1.2 Will I now lose on the db gain? Why did I have to take off so much? Will a 1 to 1 balun help to get the right measurements. I had to shorten all the bands. I used stainless steel wire.

Johan ZS1GP

3528. Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-15 09:29:42 UTC
From: Steve
Topic: 3527 Message: 3528

John,

The Hexbeam produces its best F/B, and almost its best Forward Gain, at a frequency where its SWR is about 2.5:1 (perhaps a bit lower in a multiband array), so your first measurements look about right. The SWR should improve steadily above this frequency and deteriorate rapidly below it. Lots of folk make the mistake of tuning the beam for a good SWR, but you can easily throw away most of your F/B and a couple of dB in Gain this way. Take a look at:

http://www.leoshoemaker.com/hexbeambyk4kio/understanding1.html

for more info. You can either:

1) Live with the high SWR and use an ATU
2) Tune for a low SWR and sacrifice antenna performance
3) On a monobander, or a multibander with seperate feedlines for each band, reduce the SWR with a "Hairpin or Beta match"

What I cannot understand is that you have had to shorten the wires to improve the SWR - usually it's the other way round.

If you could tell us how the SWR varies across the band it might give a clue as to what is happening.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "johancmp" <jjaucamp34@...> wrote:
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> Johan ZS1GP
>

3529. Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-15 13:53:15 UTC
From: Steve
Topic: 3527 Message: 3529

John,

One further thought, this time on your choice of stainless steel wire.

I'm not sure that this choice has much effect on the resonant length
of the elements, but you might want to take a look at:

http://www.cebik.com/wire/wiresize.html

where LB shows that you could be losing 0.5dB of Gain compared with
copper.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
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>

3530. Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-15 15:24:19 UTC
From: Steve
Topic: 3527 Message: 3530

John,

I just ran an EZNEC simulation of a 20m HexBeam at 30ft above ground with Copper wire and then with S/S wire, and got some surprising results. I used Cebik's conductivity figures. The simulation results would seem to reflect your practical measurements.

When I replaced the copper with S/S:

1) The frequency of best F/B dropped by over 100 KHz
2) The Forward gain fell by a massive 2.5dB
3) The SWR improved from 2:1 to 1.4:1

I was surprised by this until I looked at the relative conductivities of copper and S/S. S/S is 40 times worse! The feedpoint impedance of the HexBeam is relatively low, so currents are high and wire conductivity becomes more important. The improved SWR is simply a by-product of a more lossy array.

Please ignore my last posting about the shape of the SWR curve - using S/S produces a quite different set of values.

The simulation suggests that if you use S/S you would need to reduce the length of the wires to achieve the same resonant frequencies, and that you would end up with a "better than normal" SWR - pretty much what you are seeing.

My advice? Revert to copper wire - 2.5dB is too much gain to throw away!

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Steve" <steve@...> wrote:
>
> John,
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> One further thought, this time on your choice of stainless steel wire.
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> I'm not sure that this choice has much effect on the resonant length
> of the elements, but you might want to take a look at:
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> > > Johan ZS1GP
> > >
> >
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3531. Re: [hex-beam] Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-15 18:40:13 UTC
From: Mike Van Winkle
Topic: 3527 Message: 3531

Just a thought, .5 of a db = 1/12 of an s unit....vs corrosion and durabilty issues that can, will and do happen with copper. The durability problems resolved with stainless could out weigh the relatively small loss difference....unless you are seeking that last country for all band dxcc and he is so faint you can just tell he is there....Would 1/12 of an s unit matter even under those circumstances?..Interesting proposition...Stainless will out last the copper...and the coax feeding the antenna.FYI material doesn't change resonant length...length will be same but resistance can change with material differences,HOWEVER resistance is not resonance..Think about it...W4HV...Mike

--- Steve <steve@...> wrote:

> John,
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> stainless steel wire.
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3532. Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-15 23:29:17 UTC
From: johncoralyn
Topic: 3495 Message: 3532

Still trying to work HEX to HEX. Conditions not good this past week. I am on the air between 1300 to 1530 almost every night on or near 14.245. This is a DX net. John XU7ACQ

3533. Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-15 16:51:31 UTC
From: on3aeo
Topic: 3527 Message: 3533

Hallo
I ame ON4aeo bild the hexbeam using coper litse and have the seem
problem 5 band alle resonaiting to louw

3534. Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-16 09:30:16 UTC
From: Steve
Topic: 3527 Message: 3534

Mike,

I completeley agree about the 0.5dB being insignificant.

But if you see my later posting, it seems like the loss could be more like 2.5dB on the HexBeam (0.5dB was the figure for a half-wave dipole), and that is getting to be significant.

Like you I would not have expected conductivity to affect the resonant length, but EZNEC predicted a 100KHz shift at 20m when moving from copper to stainless steel.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...>
wrote:
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> Just a thought, .5 of a db = 1/12 of an s unit....vs
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3535. Hex-Beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-16 09:53:17 UTC
From: johancmp
Topic: 3535 Message: 3535

Hi Steve,
Just to let you know I did not shorten the reflectors, would that make any difference to the F/B. The reason I used the S/S wire is because I'm a 100m from the sea.
Txs so far for valuable info.
John - ZS1GP

3536. Re: Hex-Beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-16 10:25:54 UTC
From: Steve
Topic: 3535 Message: 3536

John,

This is a repeat of my private Email, in case it's of interest to other Group members.

Take a look at:

http://www.leoshoemaker.com/hexbeambyk4kio/understanding2.html

It's essential to get the HexBeam Reflectors self-resonant at the frequency where you want best beam performance. The Driven element dimensions are less critical - they mostly affect the SWR.

You need to trim the Reflector until its impedance is R+j0 at your frequency of interest. When you tune the Reflector it must not be influenced by the Driven element, so either take the Driven element off the antenna temporarily or make sure it is Open Circuit at its centre. Remember, too, that if you measure the Reflector impedance through a length of coax with your MFJ there will be an impedance transformation caused by the coax. You'll either have to cut the length of the coax to be an exact number of electrical half-wavelengths, or do what I do and use a transmission line calculator to tell me what the Reflector impedance is from the analyser reading. Once you've got the Reflector right, measure its length and simply make the Driven element 2% shorter.

I hope that makes sense and answers your question - it's easier to do than to describe in words :)

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "johancmp" <jjaucamp34@...> wrote:
>
> Hi Steve,
> Just to let you know I did not shorten the reflectors, would that make
> any difference to the F/B. The reason I used the S/S wire is because
> I'm a 100m from the sea.
> Txs so far for valuable info.
> John - ZS1GP
>

3537. Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-16 10:59:35 UTC
From: Steve
Topic: 3527 Message: 3537

Mike,

>
> FYI material doesn't
> change resonant length...length will be same but
> resistance can change with material
> differences,HOWEVER resistance is not resonance..Think
> about it...W4HV...Mike
>

Take a look at: http://www.cebik.com/amod/amod77.html

where LB explains more eloquently than I can that conductivity does
affect resonant length.

73,
Steve G3TXQ

3538. Re: [hex-beam] Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-16 20:00:54 UTC
From: Mike Van Winkle
Topic: 3527 Message: 3538

Actually..I have looked at L.B.'s work many times before...The point was the that 1/12 of an s unit is not worth fussing over!!...I happen to disagree with cebik on some points ...He unfortunately isn't around to debate this issue...obviously this is one of the points we disagree on and thats okay....Since its 1/12 db I guess if you were running 1000000 giga watts it could be important...Thanks

--- Steve <steve@...> wrote:

> Mike,
>
> >
> > FYI material doesn't
> > change resonant length...length will be same but
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> 73,
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3539. Re: [hex-beam] Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-17 02:23:42 UTC
From: Mike Van Winkle
Topic: 3527 Message: 3539

Additionally cebik equates resistive components to resonant impedances...See the article to which you refer...His is errant thinking...It matters to your impedance matching but not to the actual resonant (radiator) component...By cebiks theory you have to shorten the length as conductivity goes down(more accurately understood as resistance goes up)This shortening is proportional in reality to the loss of resonance to compensate by shortening of the radiator and therefore presents in cebiks data as a loss...Again just think about this point...Data in cebiks chart reflects his idea of keeping a 50 ohm match when modeling...I also add modeling is nice but understand it operates within specified program parameters....When you limit the possibility to a 50 ohm(or 52 ohm match) you eliminate the truth...I would settle for 1/12 of a db loss anytime to get the long term performance of stainless. However if you can live with a 57 ohm match the point is moot..The losses are negligible in both models..and the wire length comes back to resonance...The transmitter won't be bothered as coax variance could just as easily create a 57 ohm down to 45 ohm match for the rig to see...I have measured hundreds of miles of it and believe me it varies...Proof to me the world is get it close because its never perfect or as modeled....W4HV ...Mike
--- Mike Van Winkle <janmike2001@...> wrote:

>
> Actually..I have looked at L.B.'s work many times
> before...The point was the that 1/12 of an s unit is
> not worth fussing over!!...I happen to disagree with
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> > Mike,
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> > 73,
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3540. Hex Beam Bi456 is up and running

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-16 13:09:16 UTC
From: John Keller
Topic: 3540 Message: 3540

At last it's up; first contact ER4DX, Vasily, in Moldova for a new country.
Set at 37.5' on a home made wilson type crankover tower.
Turning with a Yeasu G 450A rotor.
Did need the SB220 to get through: gave 5X9 rcvd 5X6.
Seemed to hear a db or so better than my Tribander Beam at 53' with a little more noise as well. However 20m has been noisy in general on the TET lately. So not sure noise is due to the Hex Beam or the band conditions.
The Beam is easily enough to assemble and has much ingenuity in the design and some ingenious parts to make it all work. All in all a fun experience. As the assembly went along I wondered how many trips to the hardware store or internet it would take to home build it. I would think a mono bander twenty would be the way to get started and then add others as time permits.
It's the first "new" antenna I have put up. The TET was used cost $100 and got a parts antenna for $30. So the cost for the 5 Bander Hex seemed less high to me.
Any who hope to catch some of on the air for the hex to Hex Contact:-)
73,
John
N0LT
SE Iowa

3541. Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-17 11:06:44 UTC
From: Steve
Topic: 3527 Message: 3541

Mike,

I hesitate to keep the discussion running, but you raised some interesting points which sent me back to the text books :)

A few thoughts:

1) I understand the point you are making about Cebik's data. But in my own simulations I have not bothered about the feedpoint RESISTIVE component - I have simply looked for ZERO REACTANCE, and that definitely required a small but measurable change in length when going from copper to S/S. I appreciate that you have some concerns over modelling results, but remember this discussion started because a chap building a HexBeam with S/S found he had to shorten his wires compared with published dimensions.

2) I have been doing some calculations to see if skin depth could be a possible cause. As bulk resistivity goes up, the skin depth increases and the effective diameter of the wire reduces. At 14 MHz, changing #16 gauge wire from Copper to S/S increases the skin depth by the equivalent of 2 wire guage steps, so it could be significant.

If I model a Hexbeam driver made of #16 gauge copper and find its resonant frequency, then swop to S/S, the feedpoint impedance goes from (24 + j0) to (33 + j7.5). I presume the increase in bulk resistivity is causing the increase in the Real component from 24 to 33 Ohms, but there is also an inductive reactance being introduced that requires a shortening of the wire to restore resonance. If I revert to copper, and then reduce the wire size from #16 gauge to #18 gauge, the impedance goes from (24 + j0) to (25 + j3.3). Moving to #20 gauge takes the impedance to (25 + j6)

In other words, changing from copper to stainless steel seems to introduce the same sort of inductive component as reducing the wire diameter, and this reduction in wire diameter matches quite closely the calculated increase in skin depth.

3) Mike, you continue to refer to a loss of 1/12 dB. My original posting quoted Cebik's 0.5dB loss for a dipole, and I later quoted 2.5dB loss for a HexBeam, so I don't know where your figure of 1/12dB comes from??

73 and enjoy the weekend!

Steve G3TXQ

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...>
wrote:
>
> Additionally cebik equates resistive components to
> resonant impedances...See the article to which you
> refer...His is errant thinking...It matters to your
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> cebiks chart reflects his idea of keeping a 50 ohm
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> ohm(or 52 ohm match) you eliminate the truth...I would
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> term performance of stainless. However if you can live
> with a 57 ohm match the point is moot..The losses are
> negligible in both models..and the wire length comes
> back to resonance...The transmitter won't be bothered
> as coax variance could just as easily create a 57 ohm
> down to 45 ohm match for the rig to see...I have
> measured hundreds of miles of it and believe me it
> varies...Proof to me the world is get it close because
> its never perfect or as modeled....W4HV ...Mike
> --- Mike Van Winkle <janmike2001@...> wrote:

3542. Re: [hex-beam] Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-17 13:44:15 UTC
From: Mike Van Winkle
Topic: 3527 Message: 3542

Indeed...I enjoy lively friendly exploration Steve...I wanted you to know 1/12 OF AND S UNIT is EQUAL TO .5 DB...I never said 1/12 db .But I was referring to cebiks (and your) quoted dipole losses.Please note if you check the program you are using the material difference could easily be predicated on cebiks tables (which would cause them to agree with his work)..That's the difference...and that amount of loss is negligible.Your own search for for matching with zero reactance causes the shift as well.I find this interesting. Thanks for the talk! Hopefully all our members learn from it..I am an RF engineer with 33 years experience.I also hold several patents here in the states..8 of which are for antenna and related designs. I am not always right but usually can give sound advice. You are doing a great job!!! W4HV .Mike

--- Steve <steve@...> wrote:

> Mike,
>
> I hesitate to keep the discussion running, but you
> raised some
> interesting points which sent me back to the text
> books :)
>
> A few thoughts:
>
> 1) I understand the point you are making about
> Cebik's data. But in
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> component - I have simply looked for ZERO REACTANCE,
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> 3) Mike, you continue to refer to a loss of 1/12 dB.
> My original
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> I later quoted
> 2.5dB loss for a HexBeam, so I don't know where your
> figure of 1/12dB
> comes from??
>
> 73 and enjoy the weekend!
>
> Steve G3TXQ
>
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> --- In hex-beam@yahoogroups.com, Mike Van Winkle
> <janmike2001@...>
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> > its never perfect or as modeled....W4HV ...Mike
> > --- Mike Van Winkle <janmike2001@...> wrote:
>
>

>
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3543. Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-17 14:59:06 UTC
From: Steve
Topic: 3527 Message: 3543

Mike,

Thank you for the gracious comments. I, too enjoy the "cut and thrust" of technical debate!

Re-read your recent postings and you'll see that you DID say 1/12th dB, but I guess that was a slip of the "keyboard":)

Mike, I would genuinely value your views on the following phenomenon:

When I model a linear half-wave dipole (i.e. wires in a straight line), if I reduce the wire diameter the resonant frequency moves upwards - i.e. the wire has to be made slightly longer to achieve resonance at a particular frequency. This seems to be in agreement with all the textbooks.

If I now bend the dipole into the shape of a HexBeam Driven element the opposite happens. i.e. if I reduce the wire diameter the resonant frequency moves downwards. I don't think this is just a modelling aberration - I've measured the same thing in practice.

The effect seems to be dependent on the included angle between the two halves of the element, and if you model a shape with an included angle of about 95 degrees (somewhere between a linear dipole and a Hex Driver) the resonant frequency is pretty much independant of wire guage.

Have you any ideas on what might be causing this effect?

PS I'll out-bid your 33 years with 39 years in Radio Communication design with the BBC, the UK DoD and the UK Foreign Office .... but hey, that just makes me feel old :)

73,
Steve G3TXQ

3544. Re: [hex-beam] Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-18 01:57:25 UTC
From: Mike Van Winkle
Topic: 3527 Message: 3544

Steve , It makes me feel old also...fortunately I started at age 13 with my first designs....so I guess you have the years in a couple ways...LOL !...The reaction of the apparent resonant frequency in changing diameters is a well documented truth..I have always thought of the opposing(the actual opposing cross sectional side) sides of the wires as a form of capacitive reactance.Since there is no RF current flow in the inner part of the wire and since in larger wires the "plate area" is increased.(also the radiation resistance is decreased, thereby increasing radiation efficiency)..I know that sounds weird but it is how I model in my head before I began using a program...As for the hex, bending the element wires is going to do exactly the opposite (introduce inductive reactance)which would tend to cancel the effect created by the wire diameter..While an empirical study would need to be made to confirm this train of thought I feel it may be a validatable theory.. I think in the bending there is a coupling effect that may explain the aberration. This could be true because the resonant length is out of phase at various point..The effect would be created due to the apparent length if the wire were straight being different than the peak to peak length of the wavefront actually being radiated..The angle of the bend would affect this coupling and possibly explain you observations. Those are just my open thoughts on the subject..I hope this helps some in your process...It has worked well for me in my designs over the years....Its just how I visualize the lumped components inherent in Rf radiating circuits(most of us call antennas).

--- Steve <steve@...> wrote:

> Mike,
>
> Thank you for the gracious comments. I, too enjoy
> the "cut and
> thrust" of technical debate!
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> Re-read your recent postings and you'll see that you
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>

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3545. Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-18 09:11:42 UTC
From: Steve
Topic: 3527 Message: 3545

Mike,

I guess the trick is to grow old gracefully :)

Thanks very much for your thoughts - I'll need to read them through a few times to "digest" them. I, too, have tried to picture the various capacitive couplings and inductive effects, but couldn't quite explain the observed changes.

Mike, I reckon that we're allowed to get a little nostaligic. I just got off Ebay some 1958 radio magazines that contained the article from which I built my first 3 tube TRF receiver. And I also got a 1950s crystal set I was given for my 10th birthday. ..... but what will I ever do with them :)

73,
Steve

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...>
wrote:
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3546. Re: [hex-beam] Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-18 12:56:22 UTC
From: Mike Van Winkle
Topic: 3527 Message: 3546

Well I agree...The trick for me is growing old at
all...I am also a cancer survivor...5 yrs now!!! I
understand you facination with old "goodies." I have a
few myself...They work with my antenna systems today
much better than when high SWR meant you were getting
burns on your lips off your D-104 if you were
fortunate enough to have one...No meter ...no need
..If you can hear me it works...LOL!
Well better close this line before we are so off topic
we get banned...I hope the tech thought process helps.
My engineering friends say I see RF the same way Tesla
did. Its in my head (possibly why I seem a little
different) 73 W4HV Mike

--- Steve <steve@...> wrote:

> Mike,
>
> I guess the trick is to grow old gracefully :)
>
> Thanks very much for your thoughts - I'll need to
> read them through a
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> ..... but what
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>
> 73,
> Steve
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> <janmike2001@...>
> wrote:
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> > in the inner part of the wire and since in larger
> > wires the "plate area" is increased.(also the
> > radiation resistance is decreased, thereby
> increasing
> > radiation efficiency)..I know that sounds weird
> but it
> > is how I model in my head before I began using a
> > program...As for the hex, bending the element
> wires is
> > going to do exactly the opposite (introduce
> inductive
> > reactance)which would tend to cancel the effect
> > created by the wire diameter..While an empirical
> study
> > would need to be made to confirm this train of
> thought
> > I feel it may be a validatable theory.. I think in
> the
> > bending there is a coupling effect that may
> explain
> > the aberration. This could be true because the
> > resonant length is out of phase at various
> point..The
> > effect would be created due to the apparent length
> if
> > the wire were straight being different than the
> peak
> > to peak length of the wavefront actually being
> > radiated..The angle of the bend would affect this
> > coupling and possibly explain you observations.
> Those
> > are just my open thoughts on the subject..I hope
> this

> > helps some in your process...It has worked well
> for me
> > in my designs over the years....Its just how I
> > visualize the lumped components inherent in Rf
> > radiating circuits(most of us call antennas).
> >
> > --- Steve <steve@...> wrote:
> >
> > > Mike,
> > >
> > > Thank you for the gracious comments. I, too
> enjoy
> > > the "cut and
> > > thrust" of technical debate!
> > >
> > > Re-read your recent postings and you'll see that
> you
> > > DID say 1/12th
> > > dB, but I guess that was a slip of the
> "keyboard":)
> > >
> > > Mike, I would genuinely value your views on the
> > > following phenomenon:
> > >
> > > When I model a linear half-wave dipole (i.e.
> wires
> > > in a straight
> > > line), if I reduce the wire diameter the
> resonant
> > > frequency moves
> > > upwards - i.e. the wire has to be made slightly
> > > longer to achieve
> > > resonance at a particular frequency. This seems
> to
> > > be in agreement
> > > with all the textbooks.
> > >
> > > If I now bend the dipole into the shape of a
> HexBeam
> > > Driven element
> > > the opposite happens. i.e. if I reduce the wire
> > > diameter the resonant
> > > frequency moves downwards. I don't think this is
> > > just a modelling
> > > aberration - I've measured the same thing in
> > > practice.
> > >
> > > The effect seems to be dependent on the included
> > > angle between the
> > > two halves of the element, and if you model a

> shape
> > > with an included
> > > angle of about 95 degrees (somewhere between a
> > > linear dipole and a
> > > Hex Driver) the resonant frequency is pretty
> much
> > > independant of wire
> > > guage.
> > >
> > > Have you any ideas on what might be causing this
> > > effect?
> > >
> > > PS I'll out-bid your 33 years with 39 years in
> Radio
> > > Communication
> > > design with the BBC, the UK DoD and the UK
> Foreign
> > > Office .... but
> > > hey, that just makes me feel old :)
> > >
> > > 73,
> > > Steve G3TXQ
> > >
> > >
> > >
> >
> >
> >
> >
> >
>

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3547. ugly hex..

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-19 01:25:08 UTC
From: hambeemer
Topic: 3547 Message: 3547

Howdy!
Once again I have made another Hex. Multi bands of 20,17,15, 12 and 10 meters. Used house multi strand wire with the coating still intact. I think the wire is #12.
We have a store here that sells salvaged stuff and purchase fiberglass poles that are real stiff.
I cut the wires figuring I would be pruning them so I have no idea what the measurements are! HEH. SWR is flat on all bands.
Knowing the discussion of the need for some SWR to get more F/B has had me wondering.
HOWEVER! November 8 I turned the antenna to the east hoping to hear my friends in New Jersey. I did hear something and thot I was hearing mexico until the call signs were said...
Italy of all places! this was on 15 meters/21.285 So I waited for the fellow to call cq and called out my ab0ts.
I didn't hear anyone calling him but he told the rest to hold on as he was calling alpha bravo zero tango sugar... Cool!
He said my signal was 5 by 2 not bad for the hex which is up only 20 feet and 100 watts. Of course he was up 75 feet and had a typical 5 band yagi.

So either my calculations are real good or the bands are starting to open up?

Not sure if I want to tinker with sucess! heheh

tim, ab0ts
columbia heights, mn

3548. Hex beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-19 08:01:52 UTC
From: edi
Topic: 3548 Message: 3548

Hello
I'm new on this group. I would like built an Hex beam for one or two band (14-18 MHz as first attempt). Looking for measurements I found a lot several time conflitcting. Please, can anyone give me his tested measurements so I can make a good start. Thanks to everybody. Ed

3549. Re: [hex-beam] Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-15 12:44:35 UTC
From: Dale
Topic: 3527 Message: 3549

I was wondering if part of the problem was the use of the stainless
steel wire?
k8nke

Steve wrote:
>
> John,
>
> The Hexbeam produces its best F/B, and almost its best Forward Gain, at
> a frequency where its SWR is about 2.5:1 (perhaps a bit lower in a
> multiband array), so your first measurements look about right. The SWR
> should improve steadily above this frequency and deteriorate rapidly
> below it. Lots of folk make the mistake of tuning the beam for a good
> SWR, but you can easily throw away most of your F/B and a couple of dB
> in Gain this way. Take a look at:
>
> http://www.leoshoemaker.com/hexbeambyk4kio/understanding1.html
> <http://www.leoshoemaker.com/hexbeambyk4kio/understanding1.html>
>
> for more info. You can either:
>
> 1) Live with the high SWR and use an ATU
> 2) Tune for a low SWR and sacrifice antenna performance
> 3) On a monobander, or a multibander with seperate feedlines for each
> band, reduce the SWR with a "Hairpin or Beta match"
>
> What I cannot understand is that you have had to shorten the wires to
> improve the SWR - usually it's the other way round.
>
> If you could tell us how the SWR varies across the band it might give a
> clue as to what is happening.
>
> 73,
> Steve G3TXQ
>
> --- In hex-beam@yahoogroups.com <mailto:hex-beam%40yahoogroups.com>,
> "johancmp" <jjaucamp34@...> wrote:
> >
> > I built a 5-band Hex-beam according to the exact measurements. For
> 20m
> > the measurement is 5.52m times 2. The SWR on 20m was 2.8 at 5m above
> > ground. I the started shortening the wire and eventually ended up in
> > taking off 200cm per side, a total of 400cm overall. The SWR then
> came
> > down to 1.2 Will I now lose on the db gain? Why did I have to take

> > off so much? Will a 1 to 1 balun help to get the right
> measurements.
> > I had to shorten all the bands. I used stainless steel wire.
> >
> > Johan ZS1GP
> >
>
>

[Non-text portions of this message have been removed]

3550. Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-19 23:39:09 UTC
From: w4wb
Topic: 3527 Message: 3550

Mike and Steve,

Interesting discussion. FWIW, NEC2 has a problem with acute angles. This has to do with how the author implemented the method of moments computations. In short, the issue is that any segment on the driven element actually radiates a portion of its flux to all parts of the other three legs of the driven element (field strength and phase varying at each of the other affected segments). A portion of the induced current is combined with the direct driven current in these segments and so on, which thereby modifies the ultimate radiated field. The actual composite field becomes a complex iterative computation (that can converge), which NEC2 is ill suited to handle. The reflector computation has similar issues.

Mike, hope you continue to beat the cancer and that we all can ham for many more years.

73 de Barry W4WB

--- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@...>
wrote:
>
> Well I agree...The trick for me is growing old at
> all...I am also a cancer survivor...5 yrs now!!! I
> understand you facination with old "goodies." I have a
> few myself...They work with my antenna systems today
> much better than when high SWR meant you were getting
> burns on your lips off your D-104 if you were
> fortunate enough to have one...No meter ...no need
> ..If you can hear me it works...LOL!
> Well better close this line before we are so off topic
> we get banned...I hope the tech thought process helps.
> My engineering friends say I see RF the same way Tesla
> did. Its in my head (possibly why I seem a little
> different) 73 W4HV Mike
>

3551. Anyone experience detuning when near trees?

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-20 02:24:25 UTC
From: Mark
Topic: 3551 Message: 3551

The baseplate I made using 1/2 inch pressure treated plywood didn't hold up to the stress of the spreaders. I've rebuilt it with a 1/2 inch thick polyethylene cutting board.

However since I've rebuilt it the SWR seems inordinately high running 2-3 across the bands as compared to my previous version which were much more similar to Traffie's version. The other difference is that it is now mounted very close to a tree and previously it was 3 or 4 feet away (approximately 1 - 1.5 meters).

Has any one experienced this? I've tried rotating the beam while watching the SWR but found no differences. I also swept it with a friends MFJ analyzer but found no distint SWR dips.

I have alse read the recent posts about having some SWR is good which I find quite interesting.

73,
Mark N3GNW

3552. Re: [hex-beam] Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-20 03:14:18 UTC
From: Mike Van Winkle
Topic: 3527 Message: 3552

Thanks Barry. I keep going...Yep I knew NEC2 has some issues with complex components.. Its hard to keep it simple in a complex world..Good to know as ham the fellowship we share trancends many of these complexities...Mike..W4HV

--- w4wb <w4wb@...> wrote:

> Mike and Steve,
>
> Interesting discussion. FWIW, NEC2 has a problem
> with acute
> angles. This has to do with how the author
> implemented the method
> of moments computations. In short, the issue is
> that any segment on
> the driven element actually radiates a portion of
> its flux to all
> parts of the other three legs of the driven element
> (field strength
> and phase varying at each of the other affected
> segments). A
> portion of the induced current is combined with the
> direct driven
> current in these segments and so on, which thereby
> modifies the
> ultimate radiated field. The actual composite field
> becomes a
> complex iterative computation (that can converge),
> which NEC2 is ill
> suited to handle. The reflector computation has
> similar issues.
>
> Mike, hope you continue to beat the cancer and that
> we all can ham
> for many more years.
>
> 73 de Barry W4WB
>
>
> --- In hex-beam@yahoogroups.com, Mike Van Winkle
> <janmike2001@...>
> wrote:
> >
> > Well I agree...The trick for me is growing old at

> > all...I am also a cancer survivor...5 yrs now!!! I
> > understand you facination with old "goodies." I
> have a
> > few myself...They work with my antenna systems
> today
> > much better than when high SWR meant you were
> getting
> > burns on your lips off your D-104 if you were
> > fortunate enough to have one...No meter ...no need
> > ..If you can hear me it works...LOL!
> > Well better close this line before we are so off
> topic
> > we get banned...I hope the tech thought process
> helps.
> > My engineering friends say I see RF the same way
> Tesla
> > did. Its in my head (possibly why I seem a little
> > different) 73 W4HV Mike
> >
>
>
>
>

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3553. Re: Hex beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-20 09:02:40 UTC
From: Steve
Topic: 3548 Message: 3553

Ed,

You are right - there are some conflicting dimensions out there!

Leo (K4KIO) and I have been trying to produce a definitive set of dimensions for the benefit of builders. I think we're happy with the monoband dimensions we have, and Leo is presently looking at multiband dimensions.

The problem is that the HexBeam is relatively narrow band compared with a "full-size" parasitic beam and so it's important to get it resonant at your frequencies of interest. I would strongly recommend you actually tune it in your environment. Take a look at:

http://www.leoshoemaker.com/hexbeambyk4kio/understanding1.html

for more info.

If you could tell us:

1) What wire gauge you'll be using
2) The final height above ground for the antenna
3) The spacing between the two band elements
4) Where your interests are on 20m e.g. CW or SSB

we can give you a start point.

73,
Steve

--- In hex-beam@yahoogroups.com, "edi" <et.poldo@...> wrote:
>
> Hello
> I'm new on this group. I would like built an Hex beam for one or two
> band (14-18 MHz as first attempt). Looking for measurements I found
> a lot several time conflitcting. Please, can anyone give me his tested
> measurements so I can make a good start. Thanks to everybody. Ed
>

3554. Re: problem with Hex-beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-20 09:26:57 UTC
From: Steve
Topic: 3527 Message: 3554

Barry,

Thanks for the input on NEC2 limitations.

From the day I started trying to model the HexBeam I saw how critical the segmentation needs to be around the acutely angled feedpoint. I found that "tapered" segmentation here helps a lot. I guess this feature of the modelling is explained by your comments.

Over the past couple of weeks I have built a 10m beam purely for experimental purposes, and have been comparing measured impedances and azimuth patterns against EZNEC predictions. The agreement is good enough for all practical purposes.

Interestingly the EZNEC impedance predictions are VERY accurate for one element (i.e. the Driven element alone, or the Reflector alone); they are a bit less accurate for the complete beam - the Resistive component tends to be a bit high, and the Reactive component a little low - but are still perfectly useable. Within the limits of my test range the azimuth pattern predictions are in very close agreement.

The only significant discrepancy is that EZNEC predictions are consistently 1% or so high in frequency - a bit more than I can account for by the vagaries of centre post connections etc. I've chatted to Roy Lewallen about it but he has no explanation. So for now I simply "scale" the frequency axis!!

73,
Steve

--- In hex-beam@yahoogroups.com, "w4wb" <w4wb@...> wrote:
>
> Mike and Steve,
>
> Interesting discussion. FWIW, NEC2 has a problem with acute
> angles. This has to do with how the author implemented the method
> of moments computations. In short, the issue is that any segment
on
> the driven element actually radiates a portion of its flux to all
> parts of the other three legs of the driven element (field strength
> and phase varying at each of the other affected segments). A
> portion of the induced current is combined with the direct driven
> current in these segments and so on, which thereby modifies the
> ultimate radiated field. The actual composite field becomes a
> complex iterative computation (that can converge), which NEC2 is
ill
> suited to handle. The reflector computation has similar issues.

>
> Mike, hope you continue to beat the cancer and that we all can ham
> for many more years.
>
> 73 de Barry W4WB
>
>
> --- In hex-beam@yahoogroups.com, Mike Van Winkle <janmike2001@>
> wrote:
> >
> > Well I agree...The trick for me is growing old at
> > all...I am also a cancer survivor...5 yrs now!!! I
> > understand you facination with old "goodies." I have a
> > few myself...They work with my antenna systems today
> > much better than when high SWR meant you were getting
> > burns on your lips off your D-104 if you were
> > fortunate enough to have one...No meter ...no need
> > ..If you can hear me it works...LOL!
> > Well better close this line before we are so off topic
> > we get banned...I hope the tech thought process helps.
> > My engineering friends say I see RF the same way Tesla
> > did. Its in my head (possibly why I seem a little
> > different) 73 W4HV Mike
> >
>

3555. Traffie Hex Beam Power Handling

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-22 04:22:58 UTC
From: K7PEH
Topic: 3555 Message: 3555

I just realized that I don't really know how much power the Traffie Hex beam (five bander) can
handle. I checked at the Traffie web site and did not find any figures for power handling capability. I assume legal limit as I have pushed through 1400 watts without any apparent problems.

So, I figure that any limitation is in the coaxial connection and not the wires themselves. Does anyone know anythings specific? Has anyone pushed more than 1500 watts into a Hex Beam (Traffie) -- experimental operations of course.

phil, K7PEH

P.S. Also, I noticed that there was some notes about Traffie possibly selling the business. I
know that this is probably old news but does anyone have updated information?

3556. Re: Hex beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-21 06:04:47 UTC
From: edi
Topic: 3548 Message: 3556

Thanks Steve,
I have seen the very good Leo's page, and the
excellent "Understanding..." (is it yours?)
I am on your side regarding tuning and I hope my MFJ analyzer will
help me on the job. I'm working on baseplate, spreaders and balun
(Collins choke) now.
1) I would like use AWG16 pvc coated electrical wire but I will
purchase different wire if it would be better
2) Height will be 25 feet
3) I prefer 14-18MHz CW tuning
4) I really would like more bands in the future so spacing might be
as suggested by K4KIO
Thanks again Steve, 73's Ed IV3TQE

--- In hex-beam@...m, "Steve" <steve@...> wrote:
>
> Ed,
>
> You are right - there are some conflicting dimensions out there!
>
> Leo (K4KIO) and I have been trying to produce a definitive set of
> dimensions for the benefit of builders. I think we're happy with
the
> monoband dimensions we have, and Leo is presently looking at
multiband
> dimensions.
>
> The problem is that the HexBeam is relatively narrow band compared
with
> a "full-size" parasitic beam and so it's important to get it
resonant
> at your frequencies of interest. I would strongly recommend you
> actually tune it in your environment. Take a look at:
>
> http://www.leoshoemaker.com/hexbeambyk4kio/understanding1.html
>
> for more info.
>
> If you could tell us:
>
> 1) What wire gauge you'll be using
> 2) The final height above ground for the antenna
> 3) The spacing between the two band elements
> 4) Where your interests are on 20m e.g. CW or SSB
>

> we can give you a start point.
>
> 73,
> Steve
>
>
>
>
> --- In hex-beam@yahoogroups.com, "edi" <et.poldo@> wrote:
> >
> > Hello
> > I'm new on this group. I would like built an Hex beam for one or
two
> > band (14-18 MHz as first attempt). Looking for measurements I
found
> > a lot several time conflitcting. Please, can anyone give me his
tested
> > measurements so I can make a good start. Thanks to everybody. Ed
> >
>

3557. Re: Hex beam measurements

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-22 15:11:51 UTC
From: Steve
Topic: 3548 Message: 3557

Ed,

Here are some starting dimensions for a 20m/17m beam using 16 gauge bare copper wire at a height of 24 ft:

20m
Half-driver: 216.6" [5502mm]
Half-reflector: 221" [5613mm]
Driver insulator: 7.7" [196mm]
Reflector insulator: 5.0" [127mm]

17m
Half-driver: 168.2" [4272mm]
Half-reflector: 171.6" [4359mm]
Driver insulator: 6.1" [155mm]
Reflector insulator: 4.0" [102mm]

The dimensions are optimised for the CW end of 20m.

Be aware that if you use insulated wire all the dimensions will change.

And remember to "cut long" and tune the Reflectors "in situ"

Good luck with the construction!

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "edi" <et.poldo@...> wrote:
>
> Thanks Steve,
> I have seen the very good Leo's page, and the
> excellent "Understanding..." (is it yours?)
> I am on your side regarding tuning and I hope my MFJ analyzer will
> help me on the job. I'm working on baseplate, spreaders and balun
> (Collins choke) now.
> 1) I would like use AWG16 pvc coated electrical wire but I will
> purchase different wire if it would be better
> 2) Height will be 25 feet
> 3) I prefer 14-18MHz CW tuning
> 4) I really would like more bands in the future so spacing might be
> as suggested by K4KIO
> Thanks again Steve, 73's Ed IV3TQE
>
>
>

> --- In hex-beam@yahoogroups.com, "Steve" <steve@> wrote:
> >
> > Ed,
> >
> > You are right - there are some conflicting dimensions out there!
> >
> > Leo (K4KIO) and I have been trying to produce a definitive set of
> > dimensions for the benefit of builders. I think we're happy with
> the
> > monoband dimensions we have, and Leo is presently looking at
> multiband
> > dimensions.
> >
> > The problem is that the HexBeam is relatively narrow band
compared
> with
> > a "full-size" parasitic beam and so it's important to get it
> resonant
> > at your frequencies of interest. I would strongly recommend you
> > actually tune it in your environment. Take a look at:
> >
> > http://www.leoshoemaker.com/hexbeambyk4kio/understanding1.html
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> > for more info.
> >
> > If you could tell us:
> >
> > 1) What wire gauge you'll be using
> > 2) The final height above ground for the antenna
> > 3) The spacing between the two band elements
> > 4) Where your interests are on 20m e.g. CW or SSB
> >
> > we can give you a start point.
> >
> > 73,
> > Steve
> >
> >
> >
> >
> > --- In hex-beam@yahoogroups.com, "edi" <et.poldo@> wrote:
> > >
> > > Hello
> > > I'm new on this group. I would like built an Hex beam for one
or
> two
> > > band (14-18 MHz as first attempt). Looking for measurements I
> found
> > > a lot several time conflitcting. Please, can anyone give me his
> tested

> > > measurements so I can make a good start. Thanks to everybody. Ed
> > >
> >
>

3558. Re: Traffie Hex Beam Power Handling

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-23 02:11:51 UTC
From: Alan
Topic: 3555 Message: 3558

I happened to be talking to Mike Traffie this morning and the subject came up about power capacity. He said that it should have no difficulty in handling full legal power.

--- In hex-beam@yahoogroups.com, "K7PEH" <k7peh@...> wrote:
>
> I just realized that I don't really know how much power the Traffie Hex beam (five bander) can
> handle. I checked at the Traffie web site and did not find any figures for power handling
> capability. I assume legal limit as I have pushed through 1400 watts without any apparent
> problems.
>
> So, I figure that any limitation is in the coaxial connection and not the wires themselves.
> Does anyone know anythings specific? Has anyone pushed more than 1500 watts into a Hex
> Beam (Traffie) -- experimental operations of course.
>
> phil, K7PEH
>
> P.S. Also, I noticed that there was some notes about Traffie possibly selling the business. I
> know that this is probably old news but does anyone have updated information?
>

3559. Re: [hex-beam] Re: Traffie Hex Beam Power Handling

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-23 03:10:09 UTC
From: bur52@aol.com
Topic: 3555 Message: 3559

I have put the legal limit in my five band'r many times...
No ill effects. I routinley run about 7-800 watts on ssb

JohnB
73

[Non-text portions of this message have been removed]

3560. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-29 16:03:30 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 3560

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /hexbeam_to_EZNEC_XYZ_coordinates.xls
Uploaded by : k4kio <k4kio@...>
Description : Spreadsheet to convert hexbeam wires to XYZ co-ordinates for EZNEC modeling

You can access this file at the URL:
http://groups.yahoo.com/group/hex-beam/files/hexbeam_to_EZNEC_XYZ_coordinates.xls

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

k4kio <k4kio@...>

3561. New file uploaded to hex-beam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-11-29 16:01:12 UTC
From: hex-beam@yahoogroups.com
Topic: 483 Message: 3561

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hex-beam
group.

File : /hexbeam_to_EZNEC_XYZ_coordinates.xls
Uploaded by : k4kio <k4kio@...>
Description : Excel spreadsheet to convert hexbeam data to XYZ co-ordinates for EZNEC modeling

You can access this file at the URL:
http://groups.yahoo.com/group/hex-beam/files/hexbeam_to_EZNEC_XYZ_coordinates.xls

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

k4kio <k4kio@...>

3562. Testing 5bands Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-04 14:24:07 UTC
From: Giorgio
Topic: 3562 Message: 3562

Yesterday I have done first test on my homebrew 5band hex-beam, build on lx2be design (I had already start build and cutted wires some mounths ago).

Hex-beam is now in the garden at about 5 meter on the ground, and my vertical 12avq is at about 4 meter on the roof, at about 10 meter on the ground.

On Hex-beam SWR is 3,00:1 on 14 Mhz and 1,3:1 to 2,00:1 to other bands but signals in 20 and 15 meters (10 meters not tested) are better (S1-S2)on vertical 12avq than Hex-beam and also directivity is very small.

Can I Hope to obtain better result than vertical antenna, putting my hex-beam on the roof, or already now hex-beam should do work better than vertical?

Thank for any reply
73 Giorgio iv3ddm

3563. RE: [hex-beam] Testing 5bands Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-04 15:29:30 UTC
From: ARLHS / USCGA
Topic: 3562 Message: 3563

Something is not right.

My hex out-performs my 12AVQ in every way.
My hex is also 5 meters on the ground and has a 9 db gain over the vertical.
The SWR on 20 meters is 2.5:1 at 14.000 but drops to 1.5:1 from 14.100 and
stays flat through 14.350. The front-to-back is about 18 db on 20 meters. I
havent tested on other bands long enough to make any comparisons.

Suggest you check the spacing (very critical) and the element length (also
critical).
Most users say the hex works best at 20-25 feet above ground. I have not
heard many users say that a vertical is better.

Jim
K2JXW

-----Original Message-----
From: hex-beam@yahoogroups.com [mailto:hex-beam@yahoogroups.com] On Behalf
Of Giorgio
Sent: Monday, December 04, 2006 9:24 AM
To: hex-beam@yahoogroups.com
Subject: [hex-beam] Testing 5bands Hexbeam

Yesterday I have done first test on my homebrew 5band hex-beam, build
on lx2be design (I had already start build and cutted wires some
mounths ago).

Hex-beam is now in the garden at about 5 meter on the ground, and my
vertical 12avq is at about 4 meter on the roof, at about 10 meter on
the ground.

On Hex-beam SWR is 3,00:1 on 14 Mhz and 1,3:1 to 2,00:1 to other bands
but signals in 20 and 15 meters (10 meters not tested) are better (S1- S2)on
vertical 12avq than Hex-beam and also directivity is very small.

Can I Hope to obtain better result than vertical antenna, putting my
hex-beam on the roof, or already now hex-beam should do work better
than vertical?

Thank for any reply
73 Giorgio iv3ddm

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.6/567 - Release Date: 12/4/2006

3564. Re: [hex-beam] Testing 5bands Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-04 22:39:33 UTC
From: bur52@aol.com
Topic: 3562 Message: 3564

ditto
Mine has some pretty good nulls off the sides. The front to back is only
about 5 db
But it certainly hears better than my vertical. And about 3-4 S units better
than my dipole..on 20 meters.
good luck
JohnB

[Non-text portions of this message have been removed]

3565. Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-05 00:42:15 UTC
From: Clay K7HC
Topic: 3495 Message: 3565

Received my XU7ACQ - HEX 2 HEX QSL card today - Thanks John.
Conditions were quite poor during your stay from the Northwest. i
listened on your frequency many times, but only once heard you well
enough for a QSO. Glad you had a good trip - 73 Clay - K7HC

--- In hex-beam@yahoogroups.com, John Stransky <johncoralyn@...> wrote:
>
> Have make many contacts to US between 1200 and 1600
> GMT. East Coast at 1200 West at 1600. So far have worked two HEX
stations, K7HC and W6hb. John XU7ACQ/KF0RQ
>
> John and Coralyn Stransky 303 776-2110 Fax 303 776-9845
>

3566. Re: [hex-beam] Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-05 00:56:04 UTC
From: bur52@aol.com
Topic: 3495 Message: 3566

hi John

Any chance you will be on the 20 meter band tomorrow (12-5).
73
JohnB
k3jvb

[Non-text portions of this message have been removed]

3567. Re: Testing 5bands Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-05 01:04:56 UTC
From: Colin
Topic: 3562 Message: 3567

Hi Giorgio,

I believe lz2be`s design uses insulated wire for the elements.
Perhaps your insulation (or wire) properties are a little different?

Even a fairly small amount of difference will shift everything quite
a lot.. as i found when i fitted some very small wireclamps at the
element knee`s to prevent the wires redistributing themselves in very
high winds.

The performance and swr have suffered quite considerably since the
modification.
I`ll have to do some retuning the old fashioned way, (no mfj 259) but
at least it`ll keep me fit :)

I think it`s a good idea to do as Steve (G3TXQ) suggests and check
the reflectors are resonant at the required frequency before
adjusting anything else.

73
Colin (m0xbm)

--- In hex-beam@yahoogroups.com, "Giorgio" <iv3ddm@...> wrote:
>
> Yesterday I have done first test on my homebrew 5band hex-beam,
build
> on lx2be design (I had already start build and cutted wires some
> mounths ago).
>
> Hex-beam is now in the garden at about 5 meter on the ground, and
my
> vertical 12avq is at about 4 meter on the roof, at about 10 meter
on
> the ground.
>
> On Hex-beam SWR is 3,00:1 on 14 Mhz and 1,3:1 to 2,00:1 to other
bands
> but signals in 20 and 15 meters (10 meters not tested) are better
(S1-
> S2)on vertical 12avq than Hex-beam and also directivity is very
small.
>
> Can I Hope to obtain better result than vertical antenna, putting
my
> hex-beam on the roof, or already now hex-beam should do work better
> than vertical?

>
> Thank for any reply
> 73 Giorgio iv3ddm
>

3568. Re: Testing 5bands Hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-05 09:36:32 UTC
From: Steve
Topic: 3562 Message: 3568

Giorgio,

As others have said, something is wrong.

My HexBeam is about 6.5m above ground. The F/B ratio is consistently 18-20dB, with deeper nulls to the sides. If you are not seeing this sort of directivity, the beam isn't working properly.

As Colin says, a good first step is to check the resonant frequency of your Reflectors.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "Giorgio" <iv3ddm@...> wrote:
>
> Yesterday I have done first test on my homebrew 5band hex-beam, build
> on lx2be design (I had already start build and cutted wires some
> mounths ago).
>
> Hex-beam is now in the garden at about 5 meter on the ground, and my
> vertical 12avq is at about 4 meter on the roof, at about 10 meter on
> the ground.
>
> On Hex-beam SWR is 3,00:1 on 14 Mhz and 1,3:1 to 2,00:1 to other bands
> but signals in 20 and 15 meters (10 meters not tested) are better (S1-
> S2)on vertical 12avq than Hex-beam and also directivity is very small.
>
> Can I Hope to obtain better result than vertical antenna, putting my
> hex-beam on the roof, or already now hex-beam should do work better
> than vertical?
>
> Thank for any reply
> 73 Giorgio iv3ddm
>

3569. Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-05 20:45:57 UTC
From: John Stransky
Topic: 3495 Message: 3569

I am now home from Cambodia. We had an opening in early November and then the band closed up. I did hear some Calif stations but that was it. My daughter is moving into a new house they are building. I will have my own ham shack on the third floor. Will put the Hex up to 40 feet. Be back in Cambodia in 2007, will let the Hex group know the time. 73 John XU7ACQ/KF0RQ

3570. Re: [hex-beam] Re: Hex Beam in Cambodia

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-05 21:05:41 UTC
From: Transpacific
Topic: 3495 Message: 3570

John, Are you using the hex beam here at your USA home QTH?

Tom WA7OB
----- Original Message -----
From: John Stransky
To: hex-beam@yahoogroups.com
Sent: Tuesday, December 05, 2006 12:45 PM
Subject: [hex-beam] Re: Hex Beam in Cambodia

I am now home from Cambodia. We had an opening in early November and then the band closed up. I did hear some Calif stations but that was it. My daughter is moving into a new house they are building. I will have my own ham shack on the third floor. Will put the Hex up to 40 feet. Be back in Cambodia in 2007, will let the Hex group know the time. 73 John XU7ACQ/KF0RQ

[Non-text portions of this message have been removed]

3571. 40M hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-05 23:31:38 UTC
From: kinzli_cisco
Topic: 3571 Message: 3571

Anyone have any basic dimensions on a 40M hexbeam? I'm just trying to get an understanding of how big it would be.

Also, does anyone have an email address for Mr. Traffie and/or his company?

Thanks,

-J

3572. 40m models

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-04 21:12:46 UTC
From: kinzli_cisco
Topic: 3572 Message: 3572

Hey, I was looking at the hexbeam website, it talks about a 4030i model being in development. I wonder if you can tell me when it might be available, and any specs that might be available?

Also, is there a 40m only version? I didn't see it on the website.

I get the feeling this might be a hex beam hobbyist forum rather that a forum for the hexbeam company, is that right?

Thanks for any pointers,

Jeff KA6LAF

3573. Re: 40M hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-06 08:52:39 UTC
From: Steve
Topic: 3571 Message: 3573

J,

1) 40m hexbeam dimensions: close on 19ft from the centre post to the tips of the spreaders

2) I think I have heard other Group Members mention that Mike Traffie tends not to communicate via Email, but is happy to take 'phone calls. There is a 'phone number on his website.

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "kinzli_cisco" <kinzli@...> wrote:
>
> Anyone have any basic dimensions on a 40M hexbeam? I'm just trying
to
> get an understanding of how big it would be.
>
> Also, does anyone have an email address for Mr. Traffie and/or his
> company?
>
> Thanks,
>
> -J
>

3574. Re: 40M hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-06 10:14:12 UTC
From: dl7io
Topic: 3571 Message: 3574

Hello J,
on my website you can find tested (!) dimensions for 40m and 40m+
versions.
www.hexbeam.de
73 Holger

> --- In hex-beam@yahoogroups.com, "kinzli_cisco" <kinzli@> wrote:
> >
> > Anyone have any basic dimensions on a 40M hexbeam? I'm just
trying
> to
> > get an understanding of how big it would be.
> >
> > Also, does anyone have an email address for Mr. Traffie and/or his
> > company?
> >
> > Thanks,
> >
> > -J
> >
>

3575. Re: [hex-beam] 40M hexbeam

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-06 15:14:05 UTC
From: Transpacific
Topic: 3571 Message: 3575

Mike Traffie doesn't use email. Need to call him on his 800 phone line. Great guy, Great antenna.
Tom WA7OB

----- Original Message -----
From: kinzli_cisco
To: hex-beam@yahoogroups.com
Sent: Tuesday, December 05, 2006 3:31 PM
Subject: [hex-beam] 40M hexbeam

Anyone have any basic dimensions on a 40M hexbeam? I'm just trying to get an understanding of how big it would be.

Also, does anyone have an email address for Mr. Traffie and/or his company?

Thanks,

-J

[Non-text portions of this message have been removed]

3576. Take-off Angle

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-13 23:48:45 UTC
From: John Cowan
Topic: 3576 Message: 3576

Can anyone tell me what the approximate take off angle would be on a 5 band (10-20 meters) hexbeam @ 85 feet?

John W0TMM

Need a quick answer? Get one in minutes from people who know. Ask your question on Yahoo! Answers.

[Non-text portions of this message have been removed]

3577. Re: Take-off Angle

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-14 08:53:12 UTC
From: Steve
Topic: 3576 Message: 3577

John,

At 85 ft the elevation pattern is breaking up into several narrow lobes, and the answer to your question is "band dependant".

An EZNEC run gives the following results for a 5 bander with the 10m elements at 85 ft above average ground:

14MHz: lobe1 11deg; lobe2(-1.6dB) 36deg; lobe3(-5.7dB) 72deg

18.1MHz: lobe1 9deg; lobe2(-1dB) 28deg; lobe3(-2.3dB) 51deg

21MHz: lobe1 8deg; lobe2(-0.9dB) 24deg; lobe3(-2.1dB) 43deg

24.9MHz: lobe1 7deg; lobe2(-0.6dB) 20deg; lobe3(-1.4dB) 35deg; lobe4 (-2.6dB) 54deg; lobe5(-6.6dB) 86deg

28.4MHz: lobe1 6deg; lobe2(-0.5dB) 18deg; lobe3(-1.1dB) 30deg; lobe4 (-1.7dB) 45deg; lobe5(-2.8dB) 66deg

The figures in brackets give the strength of the lobe relative to lobe1.

Be aware that there are some very deep "nulls" between these lobes at elevation angles you might well be needing for shorter skip paths!

Hope this helps,

Steve G3TXQ

--- In hex-beam@yahoogroups.com, John Cowan <w0tmm@...> wrote:
>
> Can anyone tell me what the approximate take off angle would be on a 5 band (10-20 meters) hexbeam @ 85 feet?
>
> John W0TMM
>
>
> ---
> Need a quick answer? Get one in minutes from people who know. Ask your question on Yahoo! Answers.
>
> [Non-text portions of this message have been removed]
>

3578. Re: [hex-beam] Re: Take-off Angle

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-14 11:31:07 UTC
From: John Cowan
Topic: 3576 Message: 3578

Steve:
Not what I wanted to hear. The only option I have at this point is to lower it to 80 feet. How much difference would that make?

Steve <steve@...> wrote: John,

At 85 ft the elevation pattern is breaking up into several narrow lobes, and the answer to your question is "band dependant".

An EZNEC run gives the following results for a 5 bander with the 10m elements at 85 ft above average ground:

14MHz: lobe1 11deg; lobe2(-1.6dB) 36deg; lobe3(-5.7dB) 72deg

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24.9MHz: lobe1 7deg; lobe2(-0.6dB) 20deg; lobe3(-1.4dB) 35deg; lobe4 (-2.6dB) 54deg; lobe5(-6.6dB) 86deg

28.4MHz: lobe1 6deg; lobe2(-0.5dB) 18deg; lobe3(-1.1dB) 30deg; lobe4 (-1.7dB) 45deg; lobe5(-2.8dB) 66deg

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Be aware that there are some very deep "nulls" between these lobes at elevation angles you might well be needing for shorter skip paths!

Hope this helps,

Steve G3TXQ

--- In hex-beam@yahoogroups.com, John Cowan wrote:
>
> Can anyone tell me what the approximate take off angle would be on a 5 band (10-20 meters) hexbeam @ 85 feet?
>
> John W0TMM
>
>
> ---
> Need a quick answer? Get one in minutes from people who know. Ask your question on Yahoo! Answers.
>
> [Non-text portions of this message have been removed]
>

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[Non-text portions of this message have been removed]

3579. Re: Take-off Angle

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-14 14:11:45 UTC
From: Steve
Topic: 3576 Message: 3579

John,

Sorry to say, it will be little different at 80ft. The first two lobes are as follows:

20m: 12deg & 38deg
17m: 9deg & 30deg
15m: 8deg & 26deg
12m: 7deg & 21deg
10m: 6deg & 19deg

This is not peculiar to the HexBeam - a dipole exhibits very similar elevation patterns at the same height.

But remember that the height is very worthwhile at low (DX) take-off angles. For example, on 20m at the low take-off angles typical of long distance work, the beam will have about 6dB more gain at 80ft than at 30ft.

They say a picture is worth a thousand words, so I've posted two elevation plots in a document on my website at:

http://www.karinya.net/Hex_elevations.doc

The red curve is the 20m performance at 80ft, and the blue curve at 30ft. This shows clearly that although at 80ft there is a deep null at about 25 degrees, at low angles (less than 10 degrees)there is a considerable advantage over the performance at 30ft.

So I guess the "optimum height" all depends on the sort of path length you are interested in!

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, John Cowan <w0tmm@...> wrote:
>
> Steve:
> Not what I wanted to hear. The only option I have at this point is to lower it to 80 feet. How much difference would that make?
>
> Steve <steve@...> wrote: John,
>
> At 85 ft the elevation pattern is breaking up into several narrow
> lobes, and the answer to your question is "band dependant".
>
> An EZNEC run gives the following results for a 5 bander with the

10m
> elements at 85 ft above average ground:
>
> 14MHz: lobe1 11deg; lobe2(-1.6dB) 36deg; lobe3(-5.7dB) 72deg
>
> 18.1MHz: lobe1 9deg; lobe2(-1dB) 28deg; lobe3(-2.3dB) 51deg
>
> 21MHz: lobe1 8deg; lobe2(-0.9dB) 24deg; lobe3(-2.1dB) 43deg
>
> 24.9MHz: lobe1 7deg; lobe2(-0.6dB) 20deg; lobe3(-1.4dB) 35deg;
lobe4
> (-2.6dB) 54deg; lobe5(-6.6dB) 86deg
>
> 28.4MHz: lobe1 6deg; lobe2(-0.5dB) 18deg; lobe3(-1.1dB) 30deg;
lobe4
> (-1.7dB) 45deg; lobe5(-2.8dB) 66deg
>
> The figures in brackets give the strength of the lobe relative to
> lobe1.
>
> Be aware that there are some very deep "nulls" between these lobes
at
> elevation angles you might well be needing for shorter skip paths!
>
> Hope this helps,
>
> Steve G3TXQ
>
>
>
> --- In hex-beam@yahoogroups.com, John Cowan wrote:
> >
> > Can anyone tell me what the approximate take off angle would be
on
> a 5 band (10-20 meters) hexbeam @ 85 feet?
> >
> > John W0TMM
> >
> >
> > ---
> > Need a quick answer? Get one in minutes from people who know. Ask
> your question on Yahoo! Answers.
> >
> > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

3580. Re: [hex-beam] Re: Take-off Angle

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-14 22:17:46 UTC
From: John Cowan
Topic: 3576 Message: 3580

Steve:
Thanks for the graphics. Helped me understand the take-off angles better. I use my Hexbeam for DX. I am quite satisfied with the results. I needed the take-off angles for a propagation prediction program.

John W0TMM

Steve <steve@...> wrote: John,

Sorry to say, it will be little different at 80ft. The first two lobes are as follows:

20m: 12deg & 38deg
17m: 9deg & 30deg
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This is not peculiar to the HexBeam - a dipole exhibits very similar elevation patterns at the same height.

But remember that the height is very worthwhile at low (DX) take-off angles. For example, on 20m at the low take-off angles typical of long distance work, the beam will have about 6dB more gain at 80ft than at 30ft.

They say a picture is worth a thousand words, so I've posted two elevation plots in a document on my website at:

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The red curve is the 20m performance at 80ft, and the blue curve at 30ft. This shows clearly that although at 80ft there is a deep null at about 25 degrees, at low angles (less than 10 degrees)there is a considerable advantage over the performance at 30ft.

So I guess the "optimum height" all depends on the sort of path length you are interested in!

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, John Cowan wrote:
>
> Steve:
> Not what I wanted to hear. The only option I have at this point is to lower it to 80 feet. How much difference would that make?
>

> Steve wrote: John,
>
> At 85 ft the elevation pattern is breaking up into several narrow
> lobes, and the answer to your question is "band dependant".
>
> An EZNEC run gives the following results for a 5 bander with the
10m
> elements at 85 ft above average ground:
>
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>
> 18.1MHz: lobe1 9deg; lobe2(-1dB) 28deg; lobe3(-2.3dB) 51deg
>
> 21MHz: lobe1 8deg; lobe2(-0.9dB) 24deg; lobe3(-2.1dB) 43deg
>
> 24.9MHz: lobe1 7deg; lobe2(-0.6dB) 20deg; lobe3(-1.4dB) 35deg;
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> (-2.6dB) 54deg; lobe5(-6.6dB) 86deg
>
> 28.4MHz: lobe1 6deg; lobe2(-0.5dB) 18deg; lobe3(-1.1dB) 30deg;
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>
> The figures in brackets give the strength of the lobe relative to
> lobe1.
>
> Be aware that there are some very deep "nulls" between these lobes
at
> elevation angles you might well be needing for shorter skip paths!
>
> Hope this helps,
>
> Steve G3TXQ
>
>
>
> --- In hex-beam@yahoogroups.com, John Cowan wrote:
> >
> > Can anyone tell me what the approximate take off angle would be
on
> a 5 band (10-20 meters) hexbeam @ 85 feet?
> >
> > John W0TMM
> >
> >
> > ---
> > Need a quick answer? Get one in minutes from people who know. Ask
> your question on Yahoo! Answers.
> >
> > [Non-text portions of this message have been removed]

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>

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[Non-text portions of this message have been removed]

3581. Re: Take-off Angle

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-15 00:15:37 UTC
From: lundaym
Topic: 3576 Message: 3581

John

Since it depends on the height and the antenna type and the ground conditions, the best way to answer this is to model it using something like EZNEC software.

I have been planning to do something like this myself, but have not yet had the time. I am on vacation the next two weeks so will try to see what I can come up with, once I catch up on the honey-do list. :)

Mark Lunday
WD4ELG

--- In hex-beam@yahoogroups.com, John Cowan <w0tmm@...> wrote:
>
> Can anyone tell me what the approximate take off angle would be on a 5 band (10-20 meters) hexbeam @ 85 feet?
>
> John W0TMM
>

3582. New member, new Ham, new to Hex beams...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-16 07:11:03 UTC
From: bienebenjulia
Topic: 3582 Message: 3582

Hello, I need to know if I can build a Hex beam for Hf and/or 6M...??
Where can I start and how do I understand the basics...I need good Hex
beam calculator, blueprints and a lot of help!!?
I have read a lot about comercial Hex but willing to build my own (
Hams do that...right?) A little help to start would be great, tnx !!

KI4KGU

James

3583. Re: New member, new Ham, new to Hex beams...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-16 11:30:31 UTC
From: Steve
Topic: 3582 Message: 3583

James,

A good starting point would be Leo's HexBeam website:

http://www.leoshoemaker.com/hexbeambyk4kio/general.html

It has lots of practical advice, including dimensions, and some of the background theory. There are also some links to other HexBeam websites.

Don't be afraid to come back to the Group with further questions :)

73,
Steve G3TXQ

--- In hex-beam@yahoogroups.com, "bienebenjulia" <berkheim1@...> wrote:
>
> Hello, I need to know if I can build a Hex beam for Hf and/or 6M...??
> Where can I start and how do I understand the basics...I need good Hex
> beam calculator, blueprints and a lot of help!!?
> I have read a lot about comercial Hex but willing to build my own (
> Hams do that...right?) A little help to start would be great, tnx !!
>
> KI4KGU
>
> James
>

3584. Re: [hex-beam] New member, new Ham, new to Hex beams...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-22 22:31:48 UTC
From: Ray Keefe
Topic: 3582 Message: 3584

James,

It's not hard, Leo's site has lots of good info on it and I referred back to many times during the construction of mine. Especially the theory about it. Read it and re-read it and then re-read it again. Just when your totally confused and your in the middle of constructing the thing it starts to make sense, and after you get it up in the air it's all clear as mud.

I have been aquiring the parts over the last 6 months, mine used Flex Weave wire I got at a ham fest from a vendor from Long Island, NY. I used Crappie fishing poles from Harlee Rods, Jersey City, NJ, I paid $4.99 each for the spreaders (btw they are very thin and will break if you bend them too much, I broke 2, a 1/2 piece of plywood from a coax reel, a scrap piece of 2.5" PVC, some poly cloths line, RG8 for the feed network, scraps of plexiglass for the termination points of the feeder. It took me a good weekend to put it together, I'm not fast nor am I slow, I'm only half fast. :)

Leo's specs appear to be geared to the phone parts of the bands and that's where I set mine for. It works great! Far better than the Butternut Butterfly I took down and a whole lot easier to adjust! If you have access to an MFJ Antenna Analyzer use it when your tuning it. I still have to pull mine down in the spring and I'll rebuild it with better glass poles and really adjust the tuning of the reflectors better. For now it's up on my old Wilson TT45 crank up tower, fed by new RG213.

If you can handle a drill, wire cutters, soldering iron, read and understand the written word, then you should be able to build this antenna.

Ray
KC2GMN

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3585. Re: Hex beam plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-21 14:54:43 UTC
From: julter1linear
Topic: 3548 Message: 3585

-->Hi guys i am interested in building a hex beam for 10 metres to 40 meters were would I find a copy of some plans. Thank you regards Terry VK6TTF western australia

- In hex-beam@yahoogroups.com, "edi" <et.poldo@...> wrote:
>
> Thanks Steve,
> I have seen the very good Leo's page, and the
> excellent "Understanding..." (is it yours?)
> I am on your side regarding tuning and I hope my MFJ analyzer will
> help me on the job. I'm working on baseplate, spreaders and balun
> (Collins choke) now.
> 1) I would like use AWG16 pvc coated electrical wire but I will
> purchase different wire if it would be better
> 2) Height will be 25 feet
> 3) I prefer 14-18MHz CW tuning
> 4) I really would like more bands in the future so spacing might be
> as suggested by K4KIO
> Thanks again Steve, 73's Ed IV3TQE
>
>
>
> --- In hex-beam@yahoogroups.com, "Steve" <steve@> wrote:
> >
> > Ed,
> >
> > You are right - there are some conflicting dimensions out there!
> >
> > Leo (K4KIO) and I have been trying to produce a definitive set of
> > dimensions for the benefit of builders. I think we're happy with
> the
> > monoband dimensions we have, and Leo is presently looking at
> multiband
> > dimensions.
> >
> > The problem is that the HexBeam is relatively narrow band compared
> with
> > a "full-size" parasitic beam and so it's important to get it
> resonant
> > at your frequencies of interest. I would strongly recommend you
> > actually tune it in your environment. Take a look at:
> >
> > http://www.leoshoemaker.com/hexbeambyk4kio/understanding1.html
> >
> > for more info.

> >
> > If you could tell us:
> >
> > 1) What wire gauge you'll be using
> > 2) The final height above ground for the antenna
> > 3) The spacing between the two band elements
> > 4) Where your interests are on 20m e.g. CW or SSB
> >
> > we can give you a start point.
> >
> > 73,
> > Steve
> >
> >
> >
> >
> > --- In hex-beam@yahoogroups.com, "edi" <et.poldo@> wrote:
> > >
> > > Hello
> > > I'm new on this group. I would like built an Hex beam for one or
> two
> > > band (14-18 MHz as first attempt). Looking for measurements I
> found
> > > a lot several time conflitcting. Please, can anyone give me his
> tested
> > > measurements so I can make a good start. Thanks to everybody. Ed
> > >
> >
>

3586. Re: Hex beam plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-23 08:52:31 UTC
From: Steve
Topic: 3548 Message: 3586

Terry,

I don't know of anyone who has built a "7 bander", but a starting point would be Leo's 5-band dimensions at:

http://www.leoshoemaker.com/hexbeambyk4kio/specsandfaqs.html

then add:

30m Reflector 309.8" (insulator 6"), Driver 305.2" (insulator 9.3")
40m Reflector 446" (insulator 8.6"), Driver 437" (insulator 13.4")

These 30m and 40m dimensions are monoband figures and would probably need to be shortened slightly as part of a multiband array - the presence of the other wires typically detunes them down in frequency.

I guess it's good weather for "playing antennas" in VK-land at the moment unlike the Northern hemisphere :)

Happy Christmas!

Steve G3TXQ

--- In hex-beam@yahoogroups.com, "julter1linear" <julter@...> wrote:
>
> -->Hi guys i am interested in building a hex beam for 10 metres to 40
> meters were would I find a copy of some plans. Thank you regards Terry
> VK6TTF western australia
>
> - In hex-beam@yahoogroups.com, "edi" <et.poldo@> wrote:
> >
> > Thanks Steve,
> > I have seen the very good Leo's page, and the
> > excellent "Understanding..." (is it yours?)
> > I am on your side regarding tuning and I hope my MFJ analyzer will
> > help me on the job. I'm working on baseplate, spreaders and balun
> > (Collins choke) now.
> > 1) I would like use AWG16 pvc coated electrical wire but I will
> > purchase different wire if it would be better
> > 2) Height will be 25 feet
> > 3) I prefer 14-18MHz CW tuning
> > 4) I really would like more bands in the future so spacing might be
> > as suggested by K4KIO

> > Thanks again Steve, 73's Ed IV3TQE
> >
> >
> >
> > --- In hex-beam@yahoogroups.com, "Steve" <steve@> wrote:
> > >
> > > Ed,
> > >
> > > You are right - there are some conflicting dimensions out there!
> > >
> > > Leo (K4KIO) and I have been trying to produce a definitive set
of
> > > dimensions for the benefit of builders. I think we're happy
with
> > the
> > > monoband dimensions we have, and Leo is presently looking at
> > multiband
> > > dimensions.
> > >
> > > The problem is that the HexBeam is relatively narrow band
compared
> > with
> > > a "full-size" parasitic beam and so it's important to get it
> > resonant
> > > at your frequencies of interest. I would strongly recommend you
> > > actually tune it in your environment. Take a look at:
> > >
> > > http://www.leoshoemaker.com/hexbeambyk4kio/understanding1.html
> > >
> > > for more info.
> > >
> > > If you could tell us:
> > >
> > > 1) What wire gauge you'll be using
> > > 2) The final height above ground for the antenna
> > > 3) The spacing between the two band elements
> > > 4) Where your interests are on 20m e.g. CW or SSB
> > >
> > > we can give you a start point.
> > >
> > > 73,
> > > Steve
> > >
> > >
> > >
> > >
> > > --- In hex-beam@yahoogroups.com, "edi" <et.poldo@> wrote:
> > > >
> > > > Hello
> > > > I'm new on this group. I would like built an Hex beam for one

or
> > two
> > > > band (14-18 MHz as first attempt). Looking for measurements
I
> > found
> > > > a lot several time conflitcting. Please, can anyone give me
his
> > tested
> > > > measurements so I can make a good start. Thanks to everybody.
Ed
> > > >
> > >
> >
>

3587. Re: Hex beam plans

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-23 15:24:36 UTC
From: dl7io
Topic: 3548 Message: 3587

Hello Terry,
you also can try my webpage.
www.hexbeam.de
There are a few designs based on 40m that go up to 12m.
As more bands you add as more difficulties it makes to calculate/model
the antennas.
Because of the shape of the spreaders the higher bands are very close
together installed which causes bigger influence and makes it hard to
optimise the antenna.
But there should be enough information for the start on the mentioned
pages.
73 and the best Season Greatings to all group member
Holger, DL7IO

3588. Re: [hex-beam] New member, new Ham, new to Hex beams...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-23 11:59:43 UTC
From: Julie & Terry
Topic: 3582 Message: 3588

Thanks for your help you guy's have given me a starting point and I will start looking around for spreaders. They are a little more exspensive down hear at $80-90 Ausie dollars each, so I will have to shop around. Merry Christmas all
Regards Terry VK6TTF

[Non-text portions of this message have been removed]

3589. Re: New member, new Ham, new to Hex beams...

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-23 19:51:09 UTC
From: Steve
Topic: 3582 Message: 3589

Terry,

One further thought. In addition to looking at Holger's and Leo's sites, you might want to take a look at:

http://www.linehand.com/k7hc-MegaHex.htm

where you'll see some photos of Clay's 40m/30m hexBeam project. This is how big yours will be!

One word of warning ..... before visiting Clay's site wear some ear plugs :)

73,
Steve

--- In hex-beam@yahoogroups.com, "Julie & Terry" <julter@...> wrote:
>
> Thanks for your help you guy's have given me a starting point and I will start looking around for spreaders. They are a little more exspensive down hear at $80-90 Ausie dollars each, so I will have to shop around. Merry Christmas all
> Regards Terry VK6TTF
>
> [Non-text portions of this message have been removed]
>

3590. New to the Group & new to Hex Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-25 22:49:51 UTC
From: stevednlvy
Topic: 3590 Message: 3590

Hi my name is Steve, I am new to Hex Beams.
I Am a keen antenna homebrewer.
Could anybody give me any info please? Cheers in advance.
Also Would steamed treated Bamboo be ok for spreaders?
It is much cheaper than fibreglass & easily available in Australia.
Looking forward to all correspondence.
73's
Steve
VK4KUS

3591. Re: New to the Group & new to Hex Beams

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-26 16:11:34 UTC
From: k4kio
Topic: 3590 Message: 3591

--- In hex-beam@yahoogroups.com, "stevednlvy" <dunl@...> wrote:
>Steve:

Welcome aboard!

A variety of materials have been used successfully by hex beamers. Probably, you are going to have to just try yours and see how it comes out, unless someone on the user group has some direct experience with the "steam treated bamboo."

Information on other aspects of the hex beam is available on several sites. Mine is http://leoshoemaker.com/hexbeambyk4kio/general.html and it contains links to some of the most popular sites of others.

Good luck and 73,

Leo, K4KIO

> Hi my name is Steve, I am new to Hex Beams.
> I Am a keen antenna homebrewer.
> Could anybody give me any info please? Cheers in advance.
> Also Would steamed treated Bamboo be ok for spreaders?
> It is much cheaper than fibreglass & easily available in Australia.
> Looking forward to all correspondence.
> 73's
> Steve
> VK4KUS
>

3592. TKS

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-27 23:42:17 UTC
From: Steve Dunleavy
Topic: 3592 Message: 3592

Thanks for the assistance guys,
I have found nearly all the info I need in those pages you led me to.
Early in the new Year I will start getting the materials together, and hopefully will be on the air QSOing with you on the results
Best Regards
Steve
VK4KUS

[Non-text portions of this message have been removed]

3593. Antenna Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-28 03:06:13 UTC
From: Dennis
Topic: 1906 Message: 3593

Curious what type of masts that folks with 5-band hex's are using. The rather small slot in the HX-5Bi's base plate makes it tough for larger rotors. I am looking at using conduit pipe since the hex has so little wind load but would like to know what others are using. Thanks!!

Dennis W5UV

3594. Antenna Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-28 03:04:49 UTC
From: Dennis
Topic: 1906 Message: 3594

Curious what type of masts that folks with 5-band hex's are using. The rather small slot in the HX-5Bi's base plate makes it tough for larger rotors. I am looking at using conduit pipe since the hex has so little wind load but would like to know what others are using. Thanks!!

Dennis W5UV

3595. Re: [hex-beam] Antenna Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-28 03:20:13 UTC
From: Jason Hissong
Topic: 1906 Message: 3595

Hi Dennis,

I am using rigid steel pipe for mine that has a taper connecting a larger pipe for the rotor end and a smaller pipe for the Hexbeam end. Make sure you drill a hole through both pipes at the thread so that you can put a bolt through it to keep it from twisting in the wind.

73,
Jason Hissong

--

"A long journey starts with the first step and an understanding spouse."
http://www.undermidnight.com - astronomy and astrophotography
http://www.n8xe.com - ham radio
http://www.jasonhissong.com - electronic music composition

Dennis wrote:
> Curious what type of masts that folks with 5-band hex's are using. The
> rather small slot in the HX-5Bi's base plate makes it tough for larger
> rotors. I am looking at using conduit pipe since the hex has so little
> wind load but would like to know what others are using. Thanks!!
>
> Dennis W5UV
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

3596. Re: Antenna Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-28 09:09:45 UTC
From: Steve
Topic: 1906 Message: 3596

Dennis,

I use a single 20ft length of steel 2" diameter "scaffold pole".

It is supported against the end of my garage using 18" standoff brackets to clear the roof overhang. These 2 brackets are positioned at heights of 3ft and 12ft - I could have gone higher with the top one, but I wanted a good few courses of brickwork above it! I have one further short bracket supporting the mast off the top roof timber.

A Yaesu G450 rotator sits directly on top of the scaffold pole. The extended Hex centre post fits snugly in the rotator if I use the packing pieces supplied with it for smaller-diameter masts.

This arrangement places the 20m element somewhere around 26ft above ground.

I haven't found a need to guy it - there's relatively little extension above the top support bracket.

It's a very modest installation compared with some of you folks, but it keeps the neighbours happy!

73,
Steve G3TXQ

3597. Re: Antenna Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-28 13:40:52 UTC
From: rkbower
Topic: 1906 Message: 3597

Dennis --

My installation resembles Steve's in some ways, but with a twist...

I have a ground based, homemade mini-tower, that holds a Yaesu G-450 Rotor and thrust bearing. There is an approximately 48" length of 2" O.D. PVC going from the Rotor through the thrust bearing and extending about 10" above the thrust bearing.

The mast, then, is two (2) 10' pieces of Radio Shack antenna mast that slip together -- the mast is 1" O.D. The homemade Hex Beam (K4KIO Design) sits on top of the upper piece of mast.

It just so happens that with the specific installation location, there is a garage roof edge at about the 15' point above ground. I constructed a standoff that holds a piece of 1-1/2" I.D. PVC Pipe in a vertical position and the antenna mast slips neatly through the vertical PVC pipe making for a good physical support as well as allowing for easy turning as the ground-based rotor turns the entire mast.

I did not want the Hex Beam extending too far above the roof line -- the 20M element is approximately 25' above ground. To account for the 48" of PVC mast in the mini-tower, I cut 48" off the bottom section of mast. Then the 1" O.D. mast fits inside the 2" O.D. PVC above the thrust bearing and is attached with a 1/4" x 2-1/2" bolt through bost pieces.

If you send me your email address, I would be happy to send pictures.

Also, if you want to consider building your own mini-tower, I can assure you that it is much simpler than you might first think. When you really stop to think about it, the entire purpose of the structure is to hold the thrust bearing at some reasonable distance above the rotor. Once you realize that concept, then the construction just falls into place. The structure will cost less that the rotor and will make the rotor last almost forever. I'm no metal worker and constructed the tower over a weekend using aluminum angle and straight stock from Home Depot and bolting together with 1/4" hardware. The only tools required were a hacksaw, electric drill, tape measure, and socket wrench.

One final note, for the entire group, while it is very true that the Hex Beam has little wind resistance, mine definitely has a wind bias -- I can not understand why, buy mine really wants to consistently turn counter clockwise in any wind. If I free the mast to turn, the antenna will quickly wrap itself in a counter clockwise direction in even a moderate wind.

Has anyone else noticed this phenomena ?

Ron Bower, AC2C
AC2C@...

--- In hex-beam@yahoogroups.com, "Dennis" <duffind@...> wrote:
>
> Curious what type of masts that folks with 5-band hex's are using.
The
> rather small slot in the HX-5Bi's base plate makes it tough for
larger
> rotors. I am looking at using conduit pipe since the hex has so
little
> wind load but would like to know what others are using. Thanks!!
>
> Dennis W5UV
>

3598. Re: [hex-beam] Antenna Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-28 14:31:23 UTC
From: Michael Doherty
Topic: 1906 Message: 3598

I used the push up mast from Mike Traffie with a radio shack tv rotator at the bottom of the mast. There should be some pictures of the installation in the pictures folder.

73's Michael kd5wby

On 12/27/06, Dennis <duffind@...> wrote:
>
> Curious what type of masts that folks with 5-band hex's are using. The
> rather small slot in the HX-5Bi's base plate makes it tough for larger
> rotors. I am looking at using conduit pipe since the hex has so little
> wind load but would like to know what others are using. Thanks!!
>
> Dennis W5UV
>
> _,_._,___
>

[Non-text portions of this message have been removed]

3599. Re: Antenna Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-28 17:22:35 UTC
From: Dennis
Topic: 1906 Message: 3599

Thanks to all who replied. These all help. I have a Glen Martin RT-424 roof tower that I intend to use and wiil try a 6' section of steel electrical conduit for the mast support. I suspect it will work fine. Thanks and happy New Year to all!

73, Dennis W5uv

--- In hex-beam@yahoogroups.com, "Dennis" <duffind@...> wrote:
>
> Curious what type of masts that folks with 5-band hex's are using. The
> rather small slot in the HX-5Bi's base plate makes it tough for larger
> rotors. I am looking at using conduit pipe since the hex has so little
> wind load but would like to know what others are using. Thanks!!
>
> Dennis W5UV
>

3600. Re: [hex-beam] Re: Antenna Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-29 20:04:06 UTC
From: Lawton wright
Topic: 1906 Message: 3600

Dennis
I have a Glen Martin tower also. It is the 8' tower. The rotator mounts at the 4' level and I have a thrust bearing at the top. I have the top 2 sections of a 40' push up mast mounted in the rotor, with my antenna (spider Beam)mounted on the top of the push up pole. I have guys at the 10' and 20 level on the mast. The rotor is a Hy-Gain CD-45-ll. the set up works great but is a pain if you have to work on the antenna. We just had a storm come through Xmas night with sustained winds of 40 MPH and gust up to 60 MPH. I wish that I could say every thing came through OK but that is not the fact. One wire came loose, I think it is one of the 15 meter radiator, and I think that the antenna is free Wheeling now. As soon as I can get some Friends over we will take it down and find out what damage was really done. The point of all of this is that the set up is a great one and you wil be very happy with it.
Gene WA6ZRT

Dennis <duffind@...> wrote:
Thanks to all who replied. These all help. I have a Glen Martin RT-
424 roof tower that I intend to use and wiil try a 6' section of
steel electrical conduit for the mast support. I suspect it will work
fine. Thanks and happy New Year to all!

73, Dennis W5uv

--- In hex-beam@yahoogroups.com, "Dennis" <duffind@...> wrote:
>
> Curious what type of masts that folks with 5-band hex's are using.
The
> rather small slot in the HX-5Bi's base plate makes it tough for
larger
> rotors. I am looking at using conduit pipe since the hex has so
little
> wind load but would like to know what others are using. Thanks!!
>
> Dennis W5UV
>

[Non-text portions of this message have been removed]

3601. Re: Antenna Mast

Yahoo group: hex-beam (2001 — 2006)
Date: 2006-12-29 20:50:18 UTC
From: Dennis
Topic: 1906 Message: 3601

Thanks Gene - sorry to hear about the antenna damage. Hopefully it will be easy to repair. One thing that makes this set-up a little less desirable is the need to climb the roof! The pitch on my house is fairly steep so I'm not looking forward to that. Luckily, I know a couple of Hams that are fire fighters - they climb roofs for a living!!! Take care and Happy New Year!

73, Dennis W5UV

--- In hex-beam@yahoogroups.com, Lawton wright <wa6zrt@...> wrote:
>
> Dennis
> I have a Glen Martin tower also. It is the 8' tower. The rotator mounts at the 4' level and I have a thrust bearing at the top. I have the top 2 sections of a 40' push up mast mounted in the rotor, with my antenna (spider Beam)mounted on the top of the push up pole. I have guys at the 10' and 20 level on the mast. The rotor is a Hy-Gain CD-45-ll. the set up works great but is a pain if you have to work on the antenna. We just had a storm come through Xmas night with sustained winds of 40 MPH and gust up to 60 MPH. I wish that I could say every thing came through OK but that is not the fact. One wire came loose, I think it is one of the 15 meter radiator, and I think that the antenna is free Wheeling now. As soon as I can get some Friends over we will take it down and find out what damage was really done. The point of all of this is that the set up is a great one and you wil be very happy with it.
> Gene WA6ZRT
>
> Dennis <duffind@...> wrote:
> Thanks to all who replied. These all help. I have a Glen Martin RT-
> 424 roof tower that I intend to use and wiil try a 6' section of
> steel electrical conduit for the mast support. I suspect it will work
> fine. Thanks and happy New Year to all!
>
> 73, Dennis W5uv
>
> --- In hex-beam@yahoogroups.com, "Dennis" <duffind@> wrote:
> >
> > Curious what type of masts that folks with 5-band hex's are using.
> The
> > rather small slot in the HX-5Bi's base plate makes it tough for
> larger

> > rotors. I am looking at using conduit pipe since the hex has so
> little
> > wind load but would like to know what others are using. Thanks!!
> >
> > Dennis W5UV
> >
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

11212. Re: 4W6A the final push!

Yahoo group: hex-beam (2001 — 2006)
Date: 2004-12-31 15:18:48 UTC
From: Edward Bastow
Topic: 11094 Message: 11212

Yes, it sure was a pile up but my trusty old bb-hex at only 16ft still managed to get thru on 18/21/24 and 28 mHz.
Ted VK2WL

[Non-text portions of this message have been removed]